Service Manual

Likorall 240, 240 R2R
242, 242 R2R

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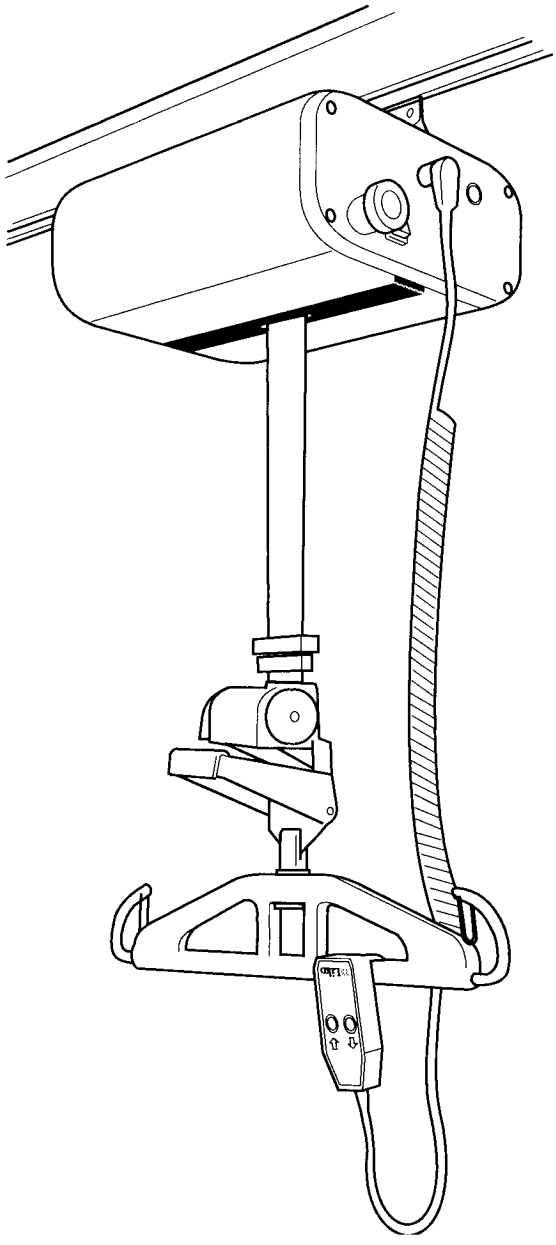
2001-11-16



Liko

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Likorall 240, 240 R2R, 242, 242 R2R

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Care and Maintenance

Checklist
For safe and troublefree operation, there are a few routine measures which should be performed every day the lift is used.

- Inspect the lift and check for any external damage.
- Check the connecting joints of the sling bar.
- Check the lift strap for wear and that the strap is not twisted.
- Check the function of the safety latch.
- Check the control function of the lift movement.
- Check that the lifting height is correctly adjusted and that the emergency-lowering device works.
- Charge the batteries every day the lift is used, and check that the battery charger works.

As needed, clean the lift with warm water or disinfectant. Caution! Do not use cleaning products that contain phenol or chlorine, since it can damage the aluminum and polyamide material.

Inspection and Control
Likorall should be thoroughly inspected for wear of parts at least once per year. Inspection should be in accordance with Liko service instructions and conducted by authorized individuals.

> **△WARNING!**
> Use only authorized Liko service personnel and Liko spare parts.

Transport and Storing
During transportation, or when the patient lift is not to be used for some time, the emergency button should be pushed in. When storing, keep the patient lift at a temperature exceeding freezing point and at a relative humidity no more than 60%.

We always try to improve our products. Naturally, this means changes from time to time.
Please contact our local representative or visit www.liko.com to receive the latest updates.

Tillsyn och underhåll

Att beakta
För problemfri användning bör vissa detaljer kontrolleras varje dag lyften används.

- Inspektera lyften och kontrollera att inga yttre skador har skett.
- Kontrollera infästningen av lyftbygeln.
- Kontrollera lyftbandets slitage, samt att bandet inte är vridet.
- Kontrollera urkrokningsskyddens funktion.
- Kontrollera manövreringen av lyftrörelsen.
- Kontrollera att lyfthöjden är korrekt inställt och att nödsänkningen fungerar.
- Ladda batterierna varje dag lyften använts och kontrollera då att laddaren fungerar.

Rengör lyften med varmt vatten eller tvättsprit, vid behov. OBS! Använd inte rengöringsmedel som innehåller fenol eller klor, eftersom detta kan skada aluminium- och polyamidmaterialen.

Tillsyn och kontroll
Minst en gång per år ska Likoralls förslitningsdetaljer kontrolleras. Kontrollen ska utföras i enlighet med Likos serviceinstruktion och av auktoriserad personal.

⚠VIKTIGT!
Reparation och underhåll får endast utföras av Liko auktoriserad personal och med originalreservdelar.

Transport och lagring
Under transport, eller då lyften inte ska användas under en längre tid, bör nödstoppen vara intryckt. Lyften bör förvaras frostfritt samt ej över normal luftfuktighet (ca 60%).

Serviceavtal
Liko erbjuder möjlighet att teckna serviceavtal för underhåll och fortlöpande tillsyn av er Likorall-anläggning.

Made in Sweden

Technical Specifications

Lifting Capacity: 180 kg (240/240 R2R)
200 kg (242/242 R2R)
Batteries: Two 12 V 2,6 Ah valveregulated lead-acidbatteries. New batteries are supplied by the manufacturer.
Battery charger: 100-240 V AC 40-60 Hz max 0,6 A
Lifting speed: 5 cm/s
Lifting range: 210 cm (adjustable height)
Electrical data: 24 V 10 A/12 A
Dimensions motor: 250x125x300 mm. WxHxL.

Material: Anodized aluminum
Emergency lowering: Electrical and mechanical (not R2R)
Intermittent operation: Int. Op 10/90, active operation max 6 min. Out of a time of 100, active must be less than 10, however not more than 6 min.

IP-class 43

This device is built for indoor operation.
Type B according to the degree of protection against electric shock.
Class II equipment.

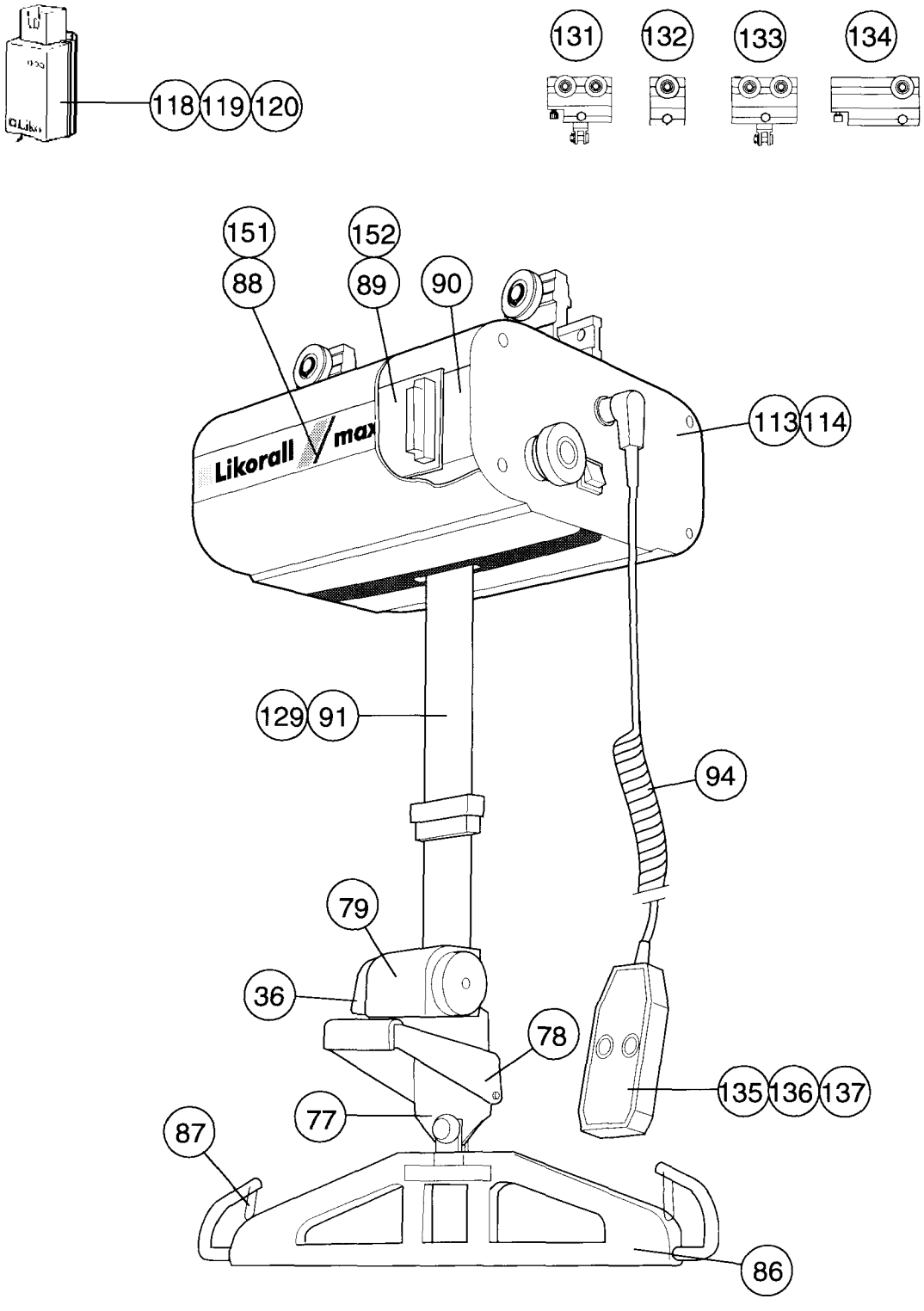
Tekniska data

Lyftkapacitet: 180 kg (240/240 R2R)
200 kg (242/242 R2R)
Batterier: 2 st 12 V 2,6 Ah. Ventilreglerade blyackar. S.k. gelbatterier. Nya batterier tillhandahålles av Liko.
Batteriladdare: 100 - 240 VAC 40-60 Hz, max 0,6 A
Lyfthastighet: 5 cm/s
Lyftområde: 210 cm (inställbart i höjdled)
Eldata: 24 V 10 A/12 A
Mått lyftmotor: 250x125x300 mm. BxHxL.

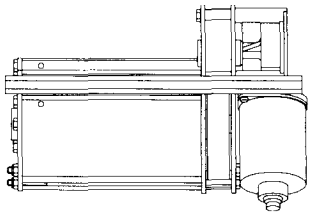
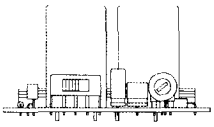
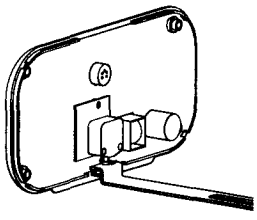
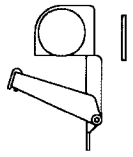
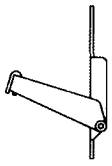
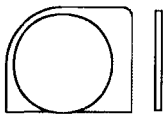
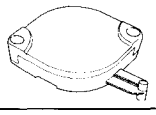
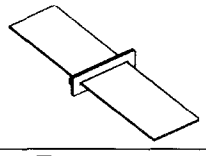
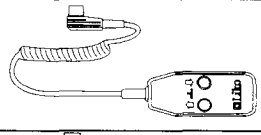
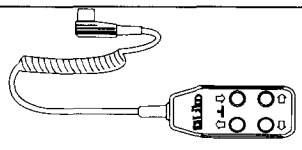
Material: Eloxerad aluminium
Nödsänkning: Elektrisk och mekanisk (ej R2R)
Intermittent drift: Int. Op 10/90, aktiv drift max 6 min. Av en tid på 100 får aktiv tid vara 10, dock max 6 min.
IP klass 43

Apparaten är avsedd för inomhusbruk.
Typ B, enligt skyddsgrad mot elektrisk chock.
Klass II utrustning.

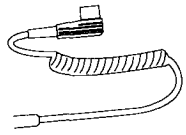
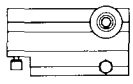
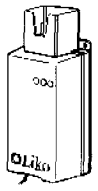
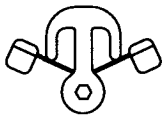
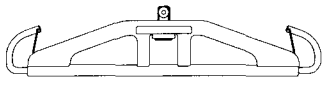
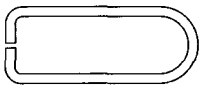
Positions Likorall
240,240 R2R, 242,242 R2R



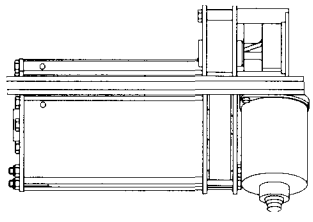
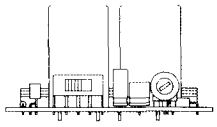
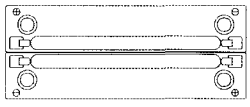
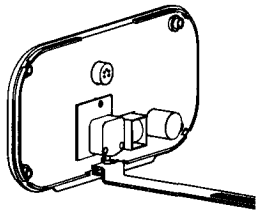
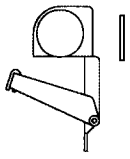
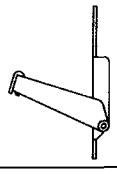
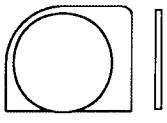
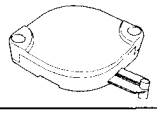
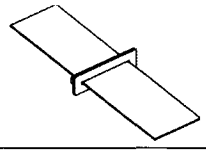
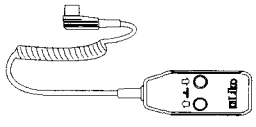
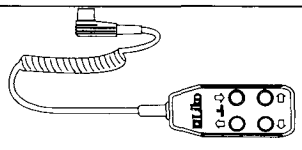
Sparepartslist

PART.NO	POS.NR	ARTICLE	UNIT	
31290005	88	Actuator restoration set	pce	
31290006	89	Electronic card	pce	
31290007	90	Battery 2,6 Ah/12 V	pce	
31290052 31290053	113 114	End cover set with squeeze protection End cover set with squeeze protection	set set	
31190006	77	Emergency lowering device	pce	
31190007	78	Body/Handle set for emergency lowering device	pce	
31190008	79	Plastic Housing	pce	
20090041	36	Spring magazine	pce	
31290011 31290028	91 129	Lift strap Lift strap R2R	pce pce	
3126031 3126033	135 137	Handcontrol with cable, 2-button Handcontrol with extra long cable, 2-button	pce pce	
3126032	136	Handcontrol for traverse, 4-button	pce	

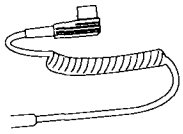
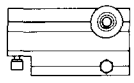
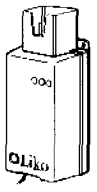
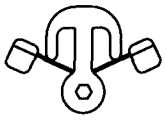
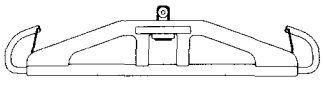
Sparepartslist

PART.NO	POS.NR	ARTICLE	UNIT	
31290014	94	Cable for handcontrol with connecting plug LR24	pce	
3126013	134	Carriage part with brake	pce	
3126017	132	Carriage part w/o brake	pce	
3126015	131	Carriage for R2R, with brake	pce	
3126014	133	Carriage for Likorall R2R	pce	
3126101 3126102 3126103	118 119 120	Battery charger, EU Battery charger, UK Battery charger, US	pce pce pce	
31290056	186	Hook R2R	pce	
3156001	86	Sling bar Universal 450, stainless	pce	
31190018	87	Safety latch	pair	 X 2

Reservdelslista

PRODUKT NR	POS.NR	PRODUKT BESKRIVNING	ENHET	
31290005	88	Motorpaket	st	
31290006	89	Kretskort	st	
31290007	90	Batteri 2,6 Ah/12 V	par	
31290052 31290053	113 114	Gavelsats med klämskydd, svart Gavelsats med klämskydd, grå	sats sats	
31190006	77	Nödsänkning	st	
31190007	78	Stomme/Handtag	st	
31190008	79	Bandmagasin	st	
20090041	36	Fjäderkassett	st	
31290011 31290028	91 129	Lyftband Lyftband R2R	st st	
3126031 3126033	135 137	Handkontroll, komplett m kabel 2-knappar Handkontroll, komplett med extra lång kabel, 2-knappar	st st	
3126032	136	Handkontroll för travers komplett med kabel, 4-knappar	st	

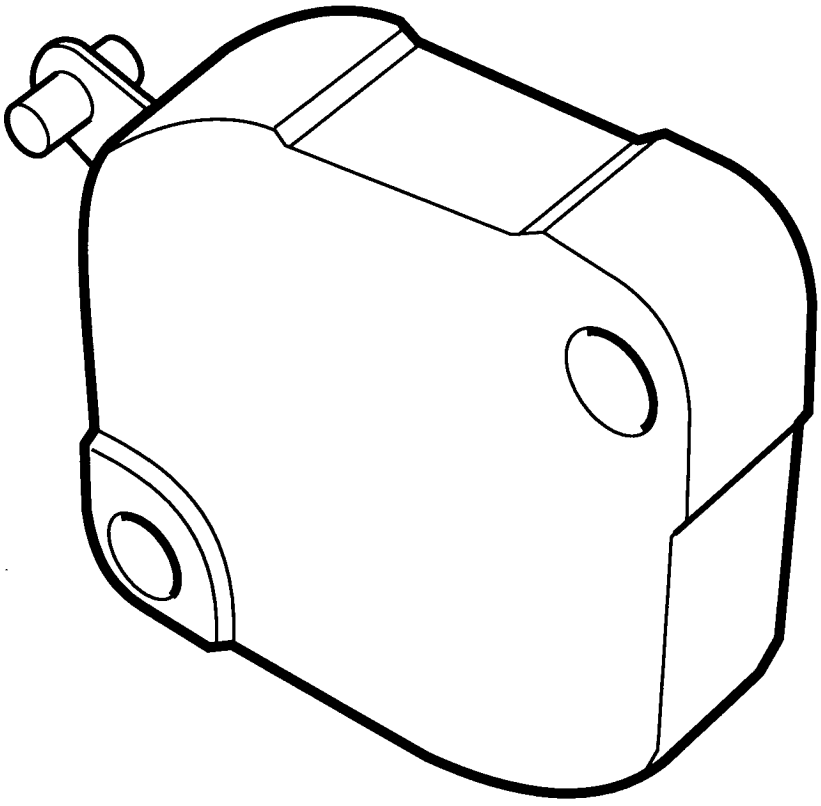
Reservdelslista

PRODUKT NR	POS.NR	PRODUKT BESKRIVNING	ENHET	
31290014	94	Manöverkabel	st	
3126013	134	Åkvagn med broms	st	
3126017	132	Åkvagn utan broms	st	
3126015	131	Åkvagn till R2R, för 90 graders vridning (med broms)	st	
3126014	133	Åkvagn till R2R, för 90 graders vridning (utan broms)	st	
3126101 3126102 3126103	118 119 120	Laddare väggmonterad, EU Laddare väggmonterad, UK Laddare väggmonterad, US	st st st	
31290056	186	Koppling R2R	st	
31190018	87	Urkrokningsskydd	par	X 2
3156001	86	Lyftbygel Universal 450	st	

Spring magazine

Prod. no 20090041

Serial no..... Version..... Release .....



All details according to drawing no. R 3961203

Details	Detail pos.	Detail no.	Unit
Spring Holder KPL	1	20090041	1

Liko

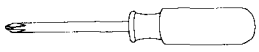
4.36.1

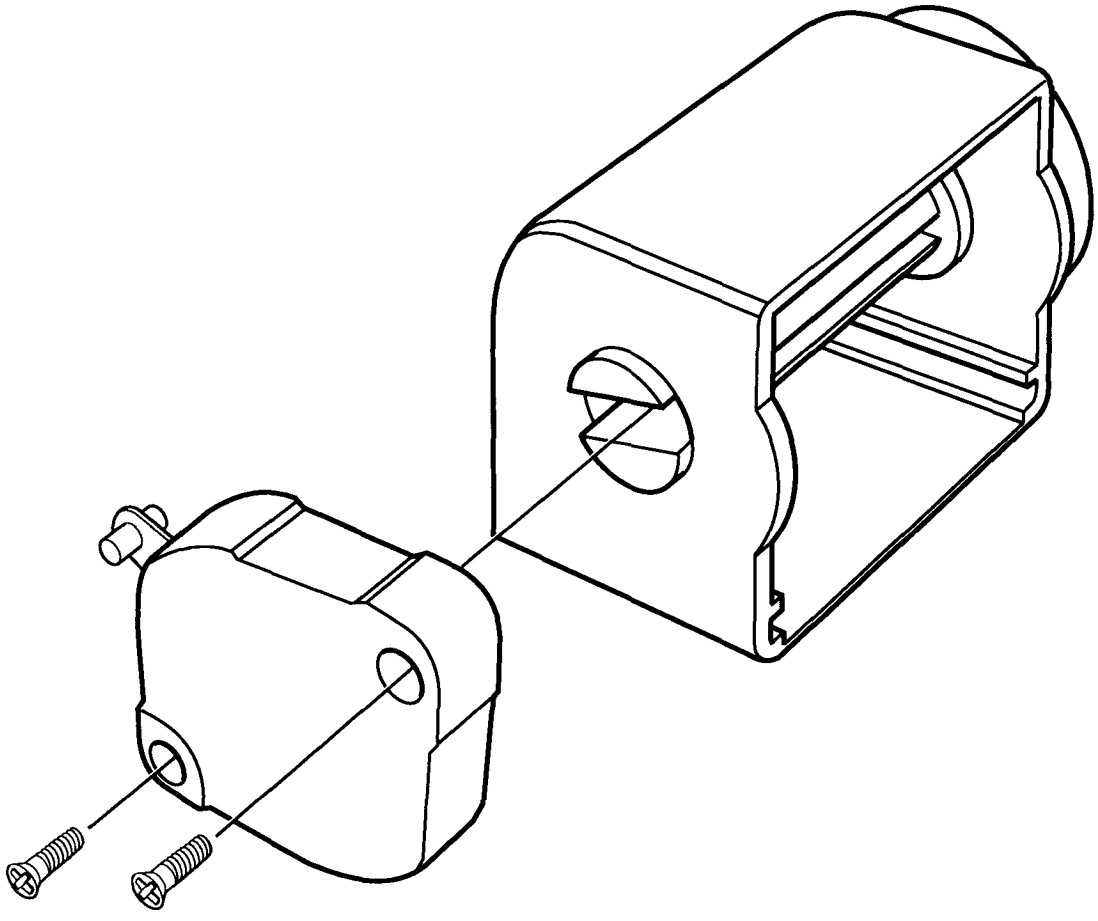
Assembly Instructions/Exchange

Spring magazine

Prod. no 20090041

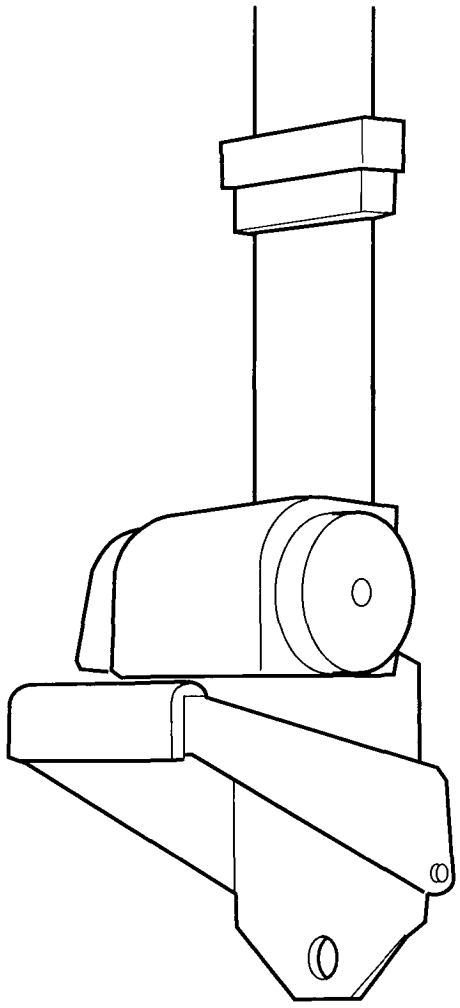
Tools required:





Emergency lowering device VL23/LR24 Prod. no 31190006

Serial no..... Version..... Release .....



All details according to drawing no. R 3961204

Details	Detail pos.	Detail no.	Unit.
Spring Holder KPL	1	900000106	1
Locking Pin 3*48	7	900000570	1
Friction Profile	15	900000571	1
Plastic Housing	4	901891202	1
Strap shaft	3	901901202	1
Wheel (right)	9	901912022	1
Screw K6S M5*12	10	930000082	1
Screw KXT B4x9,5	2	930000107	2
Tube 10/12 L=60mm	5	930000108	1

Details	Detail pos.	Detail no.	Unit
Nut M6M M5	8	930000230	1
Pin D=6 L=30	13	931891206	2
Torsion spring	12	900000109H	1
Torsion spring	12	900000109V	1
Axle stop right	14	901901207H	1
Axle stop left	14	901901207V	1
Baseplate	11	90191201C	1
Baseplate 2	16	90191201D2	1

Liko

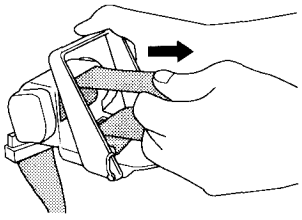
4.77.1

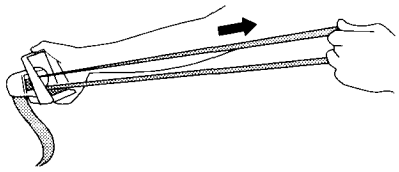
Assembly Instructions/Exchange

Emergency lowering device

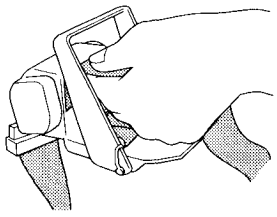
Prod. no 31190006

Tools required:

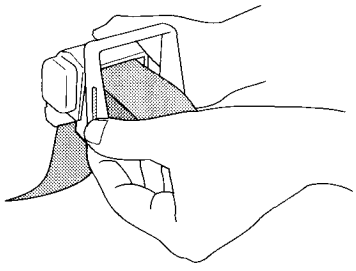




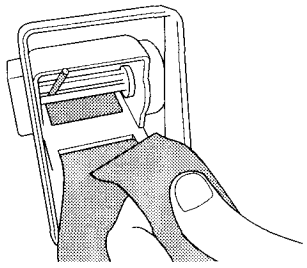
1. Pull the strap all the way out.



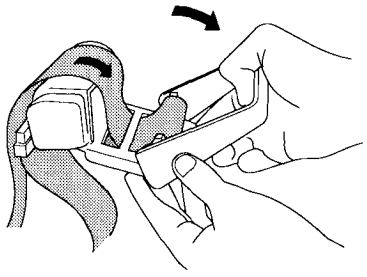
2. Hold the springloaded wheel and release the strap by removing the pin.



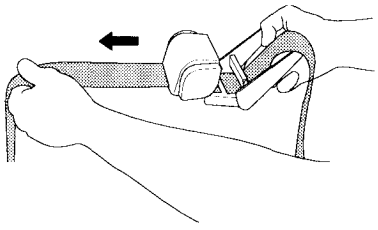
3. Remove the pin.△ Do not let go of the springloaded wheel, since the tension will release.



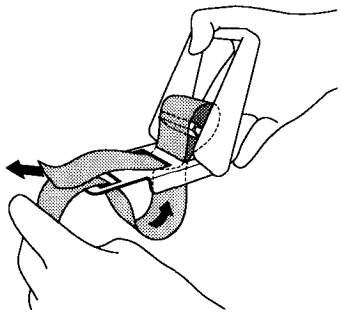
4. Use the pin to lock the axle where the strap was mounted.



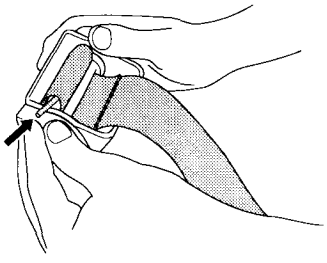
5. Push the emergency lowering handle down and pull the strapa way.



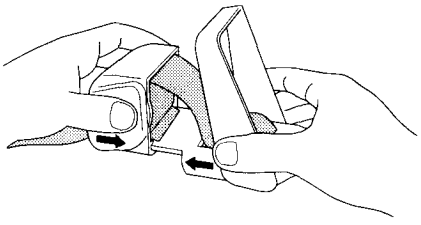
6. Pull the rest of the strap out and remove the plastic housing.



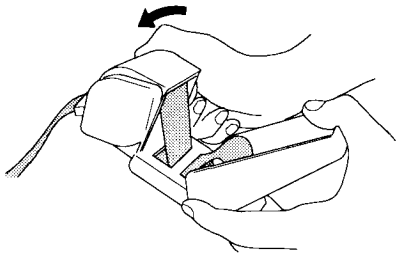
7. Mount the new strap through the plastic housing with the red mark towards the plastic housing and then as shown above.



8. Mount the strap through the slot in the axle and the same way back. **Note!** The axle has two different sides. Place the pin as shown to lock the strap.△ *Do not let go of* the springloaded wheel, since the tension will release.



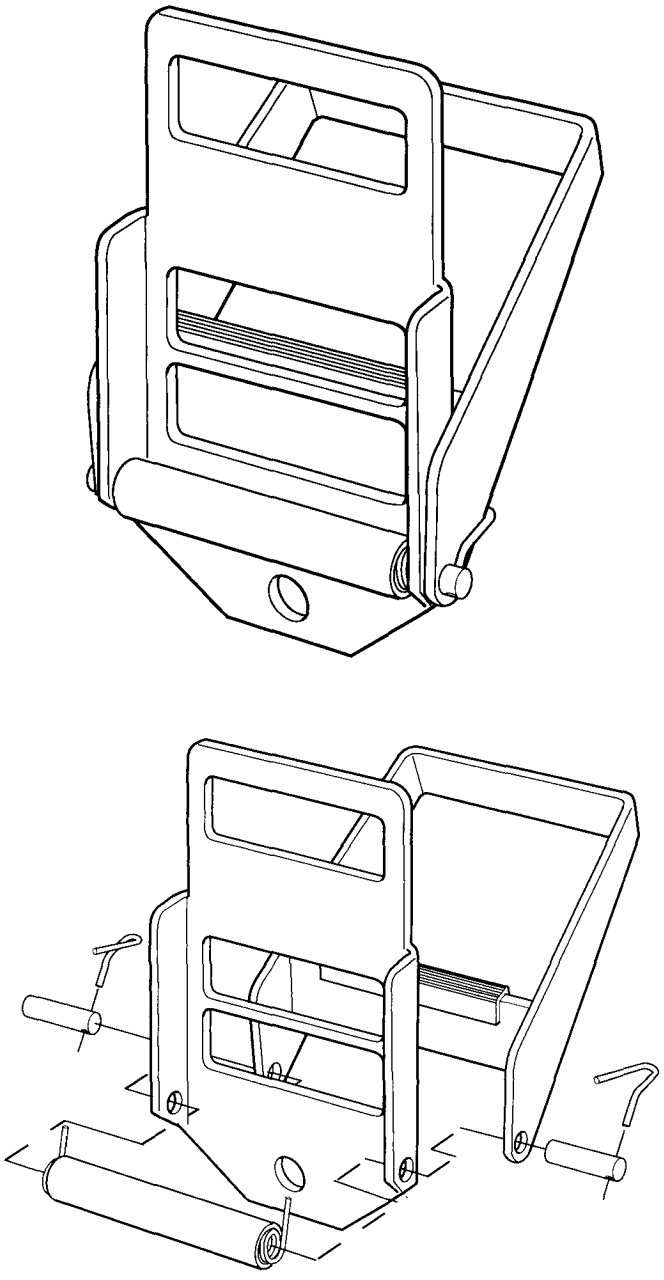
9. Push the plastic housing on to the strap joint.



10. Roll up the strap until the red mark reaches the plastic housing.

Body/Handle VL23/LR24

Serial no..... Version..... Release .....



All details according to drawing no. R 3961204

Details	Detail pos.	Detail no.	Unit	Details	Detail pos.	Detail no.	Unit
Friction Profile	15	900000571	1	Torsion spring l/r	12	900000109V	1
Tube 10/12 L=60mm	5	930000108	1	Axle stop right	14	901901207H	1
Nut M6M M5	8	930000230	1	Axle stop left	14	901901207V	1
Pin D=6 L=30	13	931891206	2	Baseplate	11	90191201C	1
Torsion spring l/r	12	900000109H	1	Baseplate 2	16	90191201D2	1

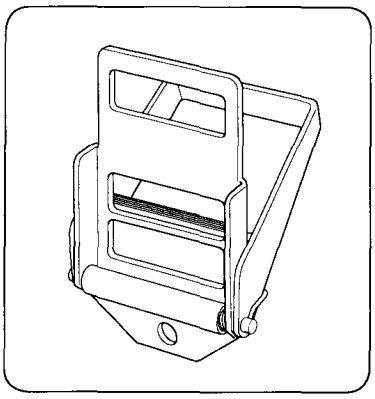
Liko

4.78.1

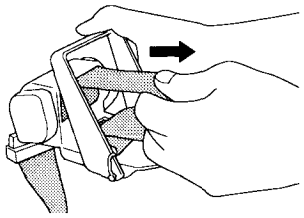
Assembly Instructions/Exchange

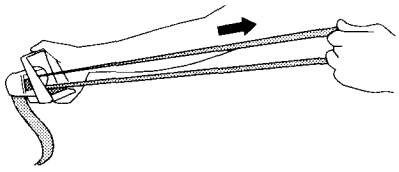
Body/Handle VL23/LR24

Prod. no 31190007

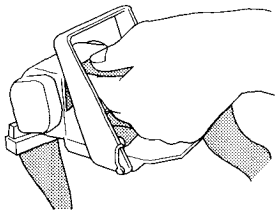


Tools required:

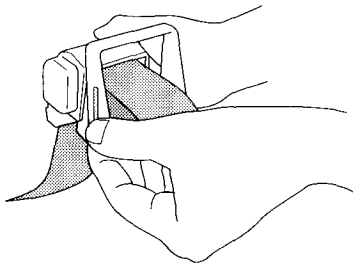




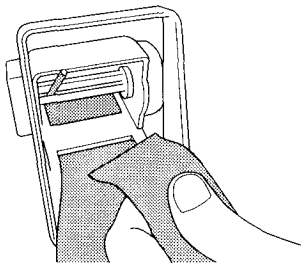
1. Pull the strap all the way out.



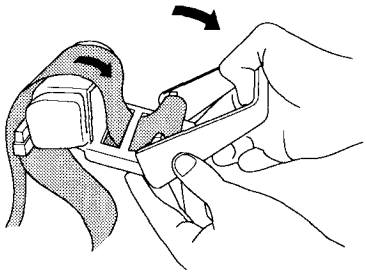
2. Hold the springloaded wheel and release the strap by removing the pin.



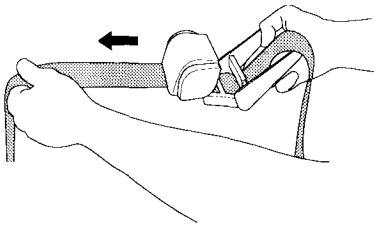
3. Remove the pin.△ Do not let go of the springloaded wheel, since the tension will release.



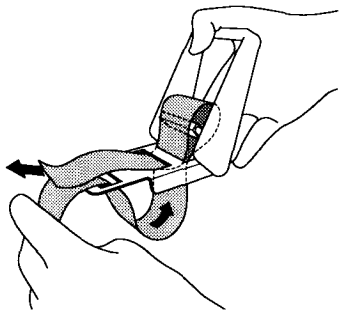
4. Use the pin to lock the axle where the strap was mounted.



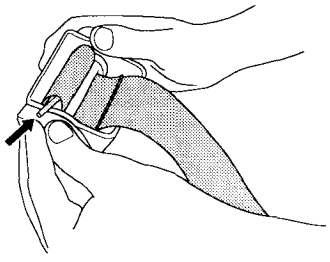
5. Push the emergency lowering handle down and pull the strap away.



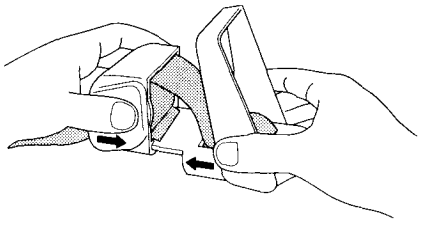
6. Pull the rest of the strap out and remove the plastic housing.



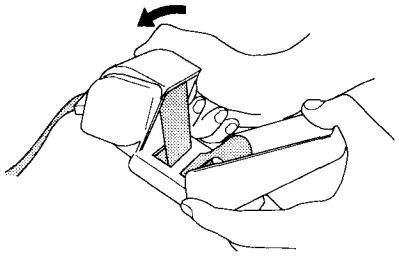
7. Mount the new strap through the plastic housing with the red mark towards the plastic housing and then as shown above.



8. Mount the strap through the slot in the axle and the same way back. **Note!** The axle has two different sides. Place the pin as shown to lock the strap.△ Do not let go of the springloaded wheel, since the tension will release.



9. Push the plastic housing on to the strap joint.

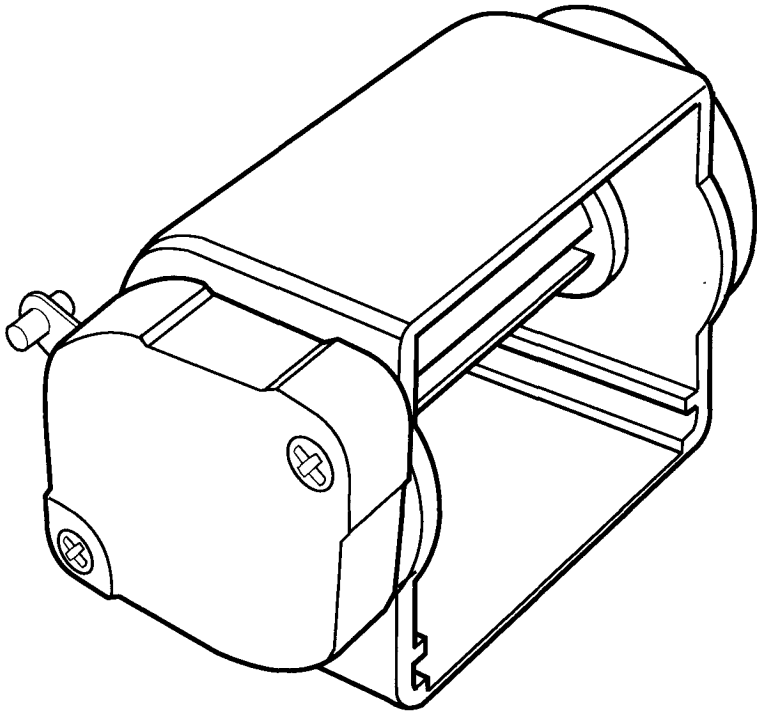


10. Roll up the strap until the red mark reaches the plastic housing.

⚠ **After changing Body/Handle the lift must be tested with maximum load**

Plastic housing

Serial no..... Version..... Release .....



All details according to drawing no. R 3961204

Details	Detail pos.	Detail no.	Unit
Spring Holder KPL	1	900000106	1
Pin 3*48	7	900000570	1
Plastic Housing	4	901891202	1
Strap shaft	3	901901202	1

Details	Detail pos.	Detail no.	Unit
Wheel (right)	9	901912022	1
Screw K6S M5*12	10	930000082	1
Screw KXT B4x9,5	2	930000107	2

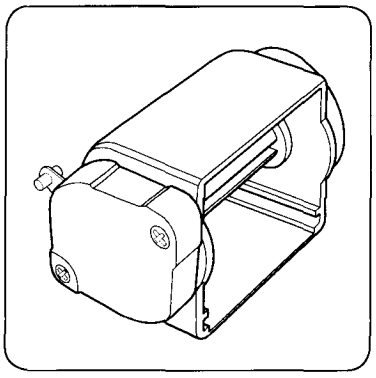
Liko

4.79.1

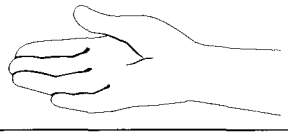
Assembly Instructions/Exchange

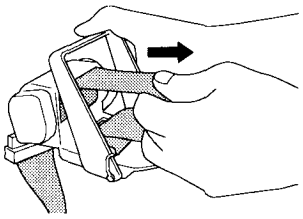
Plastic housing

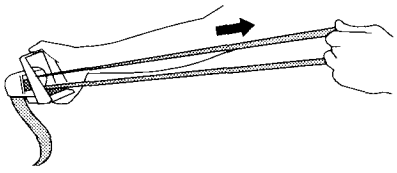
Prod. no 31190008



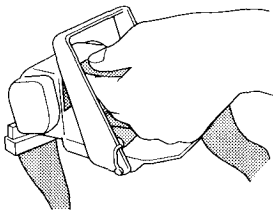
Tools required:



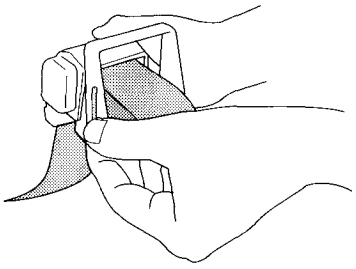




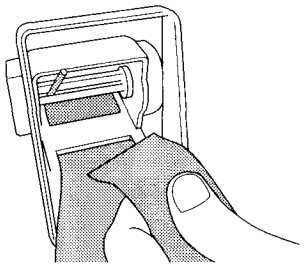
1. Pull the strap all the way out .



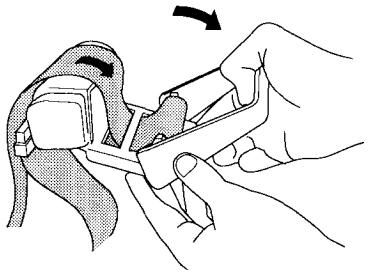
2. Hold the springloaded wheel and release the strap by removing the pin.



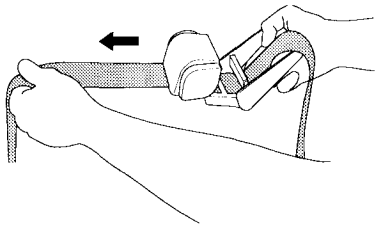
3. Remove the pin.△ Do not let go of the springloaded wheel, since the tension will release.



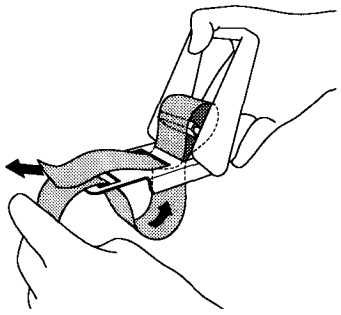
4. Use the pin to lock the axle where the strap was mounted.



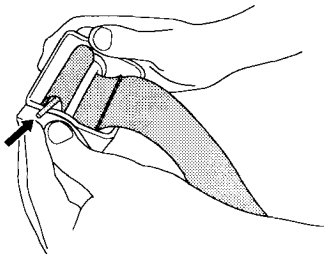
5. Push the emergency lowering handle down and pull the strap away.



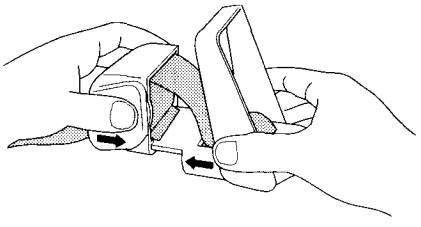
6. Pull the rest of the strap out and remove the plastic housing.



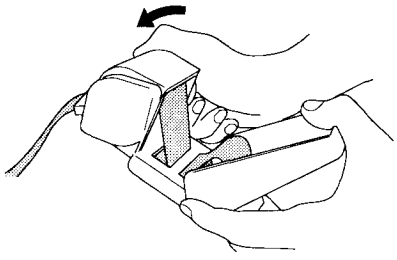
7. Mount the new strap through the plastic housing with the red mark towards the plastic housing and then as shown above.



8. Mount the strap through the slot in the axle and the same way back. **Note!** The axle has two different sides. Place the pin as shown to lock the strap.△ Do not let go of the springloaded wheel, since the tension will release.



9. Push the plastic housing on to the strap joint.



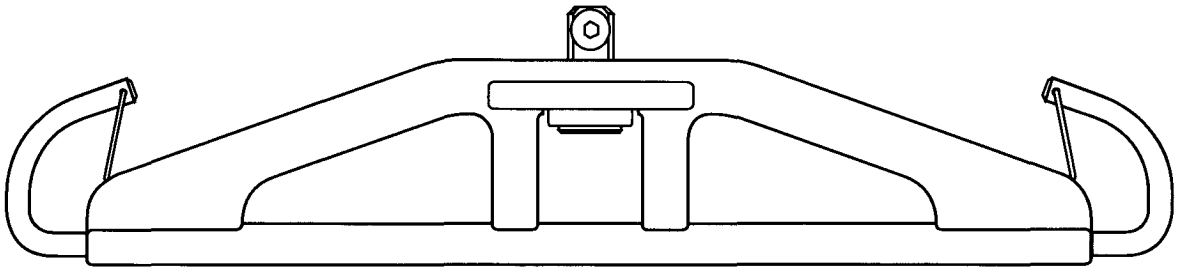
10. Roll up the strap until the red mark reaches the plastic housing.

⚠ **After changing plastic housing the lift must be tested with maximum load**

Slingbar Universal 450

Prod. no 3156001

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Body (slingbar)		901891210	1
Safety Latch		900000177	2
Center Bolt Slingbar		901953162	1
Bearing Uni Slingbar 51104		920000178	1

Details	Detail pos.	Detail no.	Unit
Cover bearing Uni Slingbar		901495317	1
O-ring 16*4,5		930000182	1
K6S M10*25		930000179	1
Locking nut M10 Nyloc		930000010	1

Liko

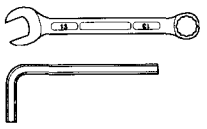
4.86.1

Assembly Instructions/Exchange

Slingbar Universal 450

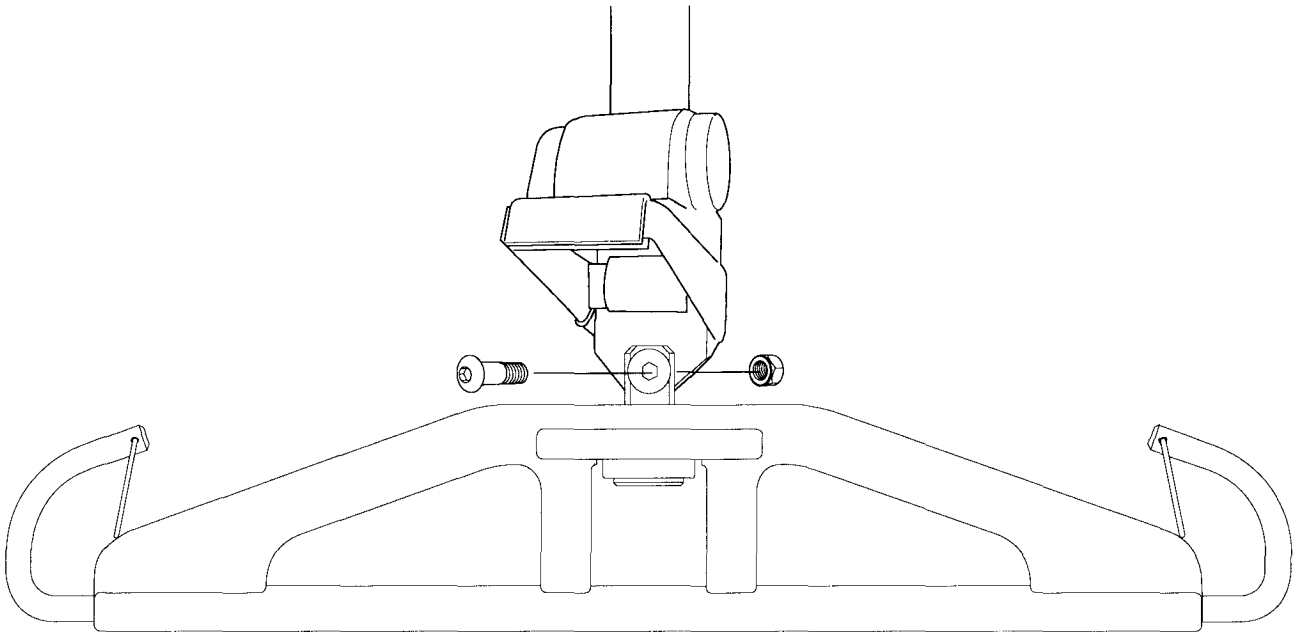
Prod. no 3156001

Tools required:



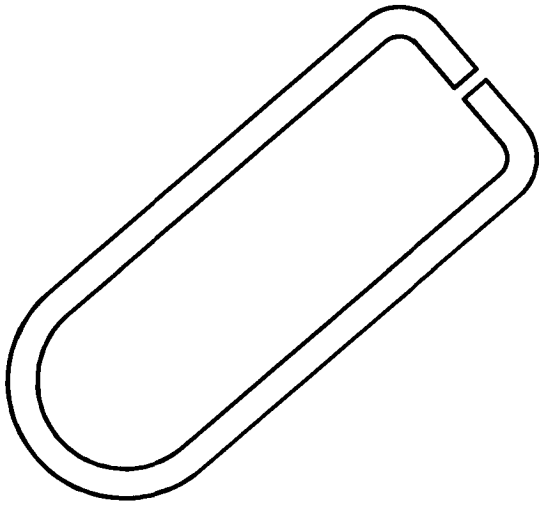
17 mm

6 mm



Safety latch

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Safety latch		900000177	2

Liko

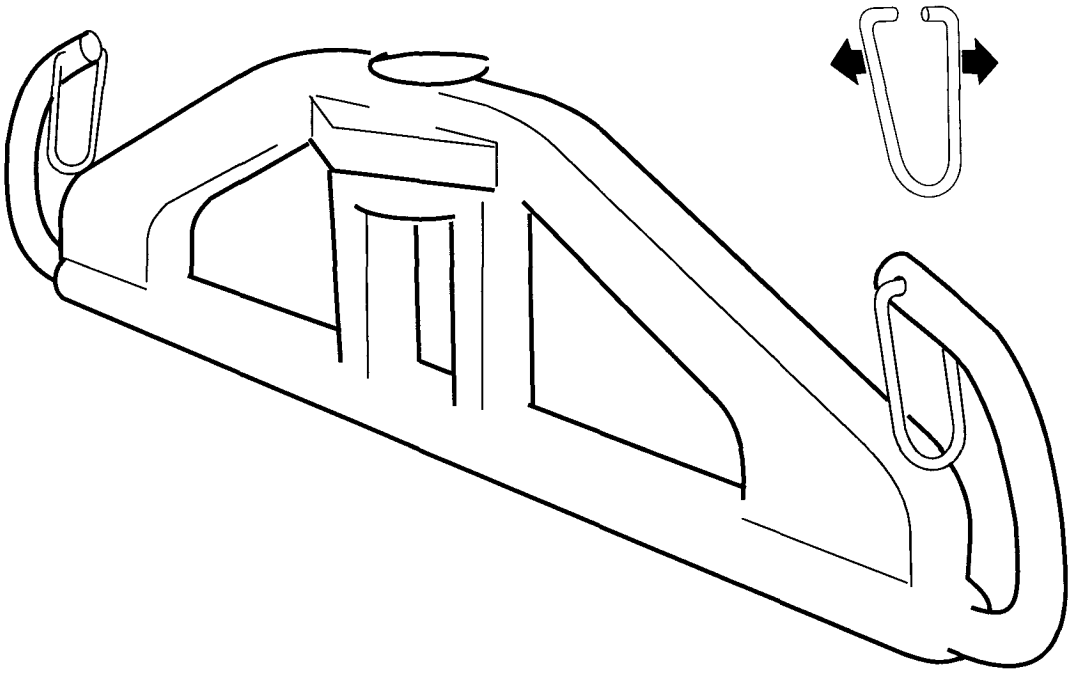
4.87.1

Assembly Instructions/Exchange

Safety latch

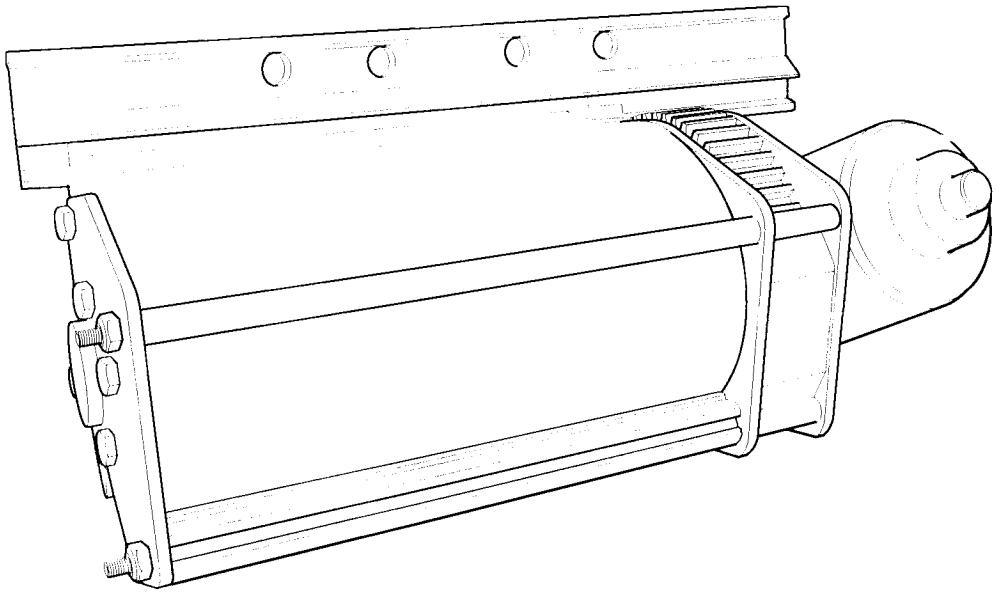
Prod. no 31190018

Tools required:



Actuator restoration

Serial no..... Version..... Release .....



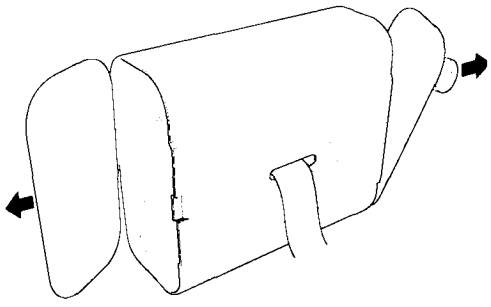
Liko

4.88.1

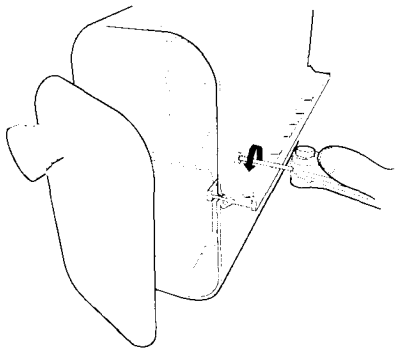
Assembly Instructions/Exchange

Actuator restoration

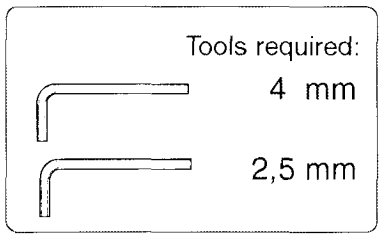
Prod. no 31290005

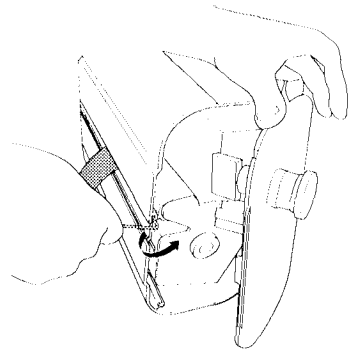


1. Remove the end covers.

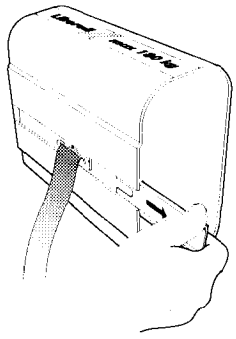


2. Remove the locking screw from the cover.

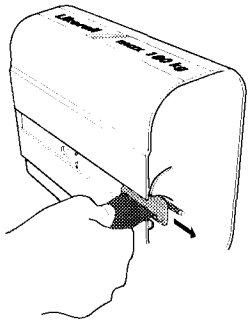




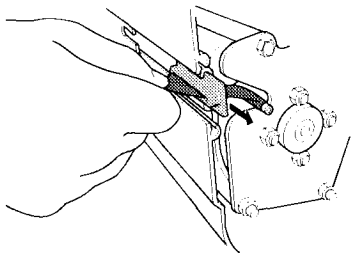
3. Remove the two locking screws from the locking rail.



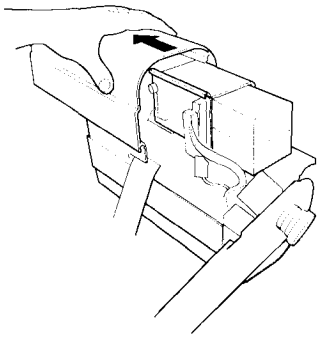
4. Pull the locking rail out.



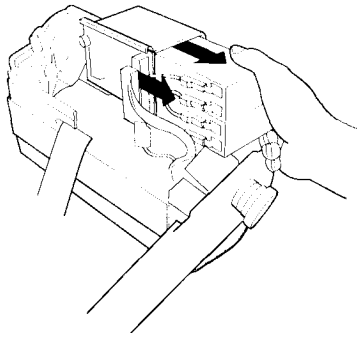
5. Drive the liftstrap back a little so you can see that the drum is in line with the plate.



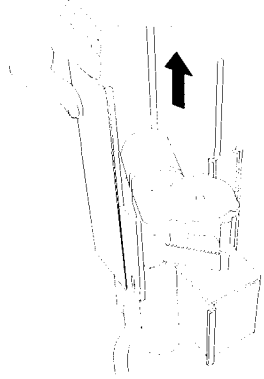
6. Pull the liftstrap out.



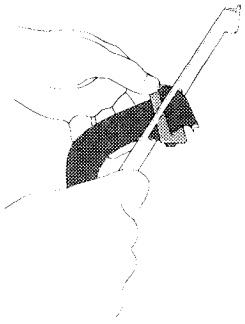
7. Remove the cover from the actuator.



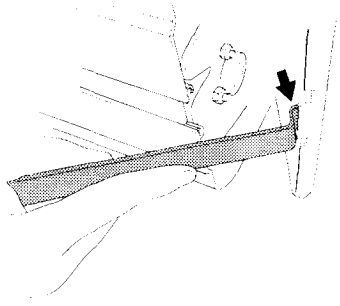
8. Remove the battery and the electronic card from the clip.



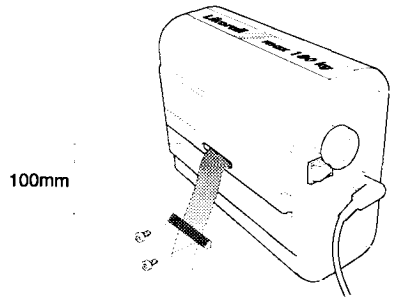
9. Remove the locking screw. Pull out the cover from the actuator.



10. Mount the new liftsrap through the squeeze protection.



11. Mount the squeeze protection between the switch and the cover.

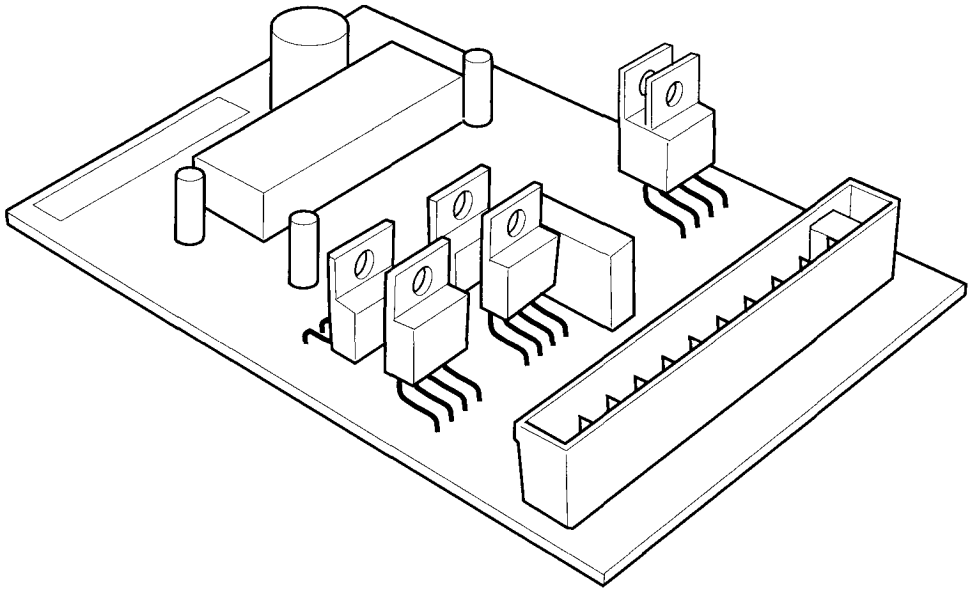


12. Pull the strap to the highest position. Feed out 10 cm. Mount the strapstop on the liftstrap

⚠ **After changing actuator the lift must be tested with maximum load**

Electronic card LR24

Serial no..... Version..... Release .....



All details according to drawing no. R 3931030-4

Details	Detail pos.	Detail no.	Unit
Electronic card	2	950000253	1

Liko

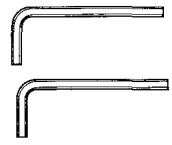
4.89.1

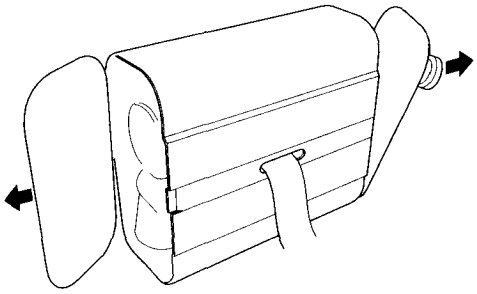
Assembly Instructions/Exchange

Electronic card LR24

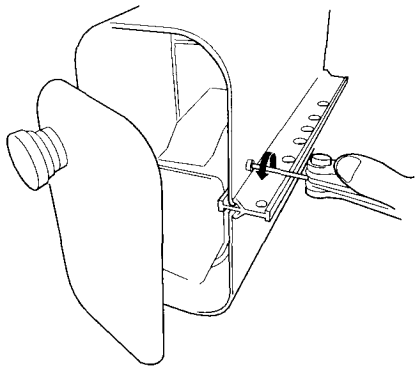
Prod. no 31290006

Tools required:

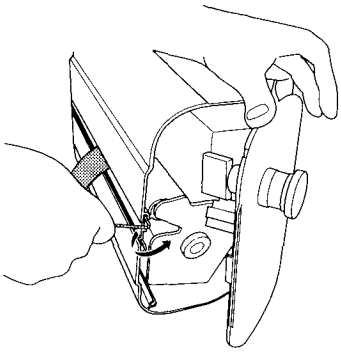




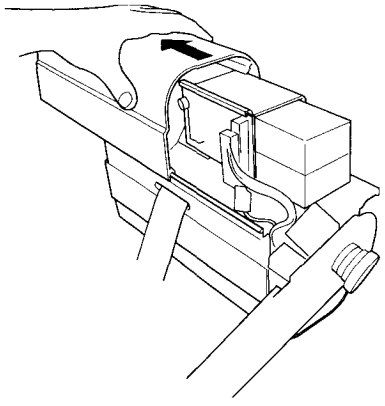
1. Remove the end covers.



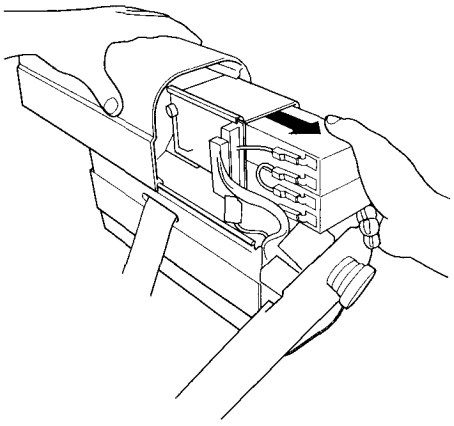
2. Remove the locking screw from the cover.

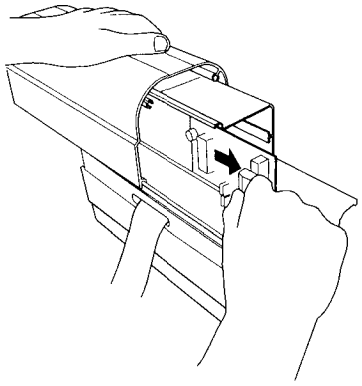


3. Remove the two locking screws from the locking rail.



4. Remove the cover from the actuator.

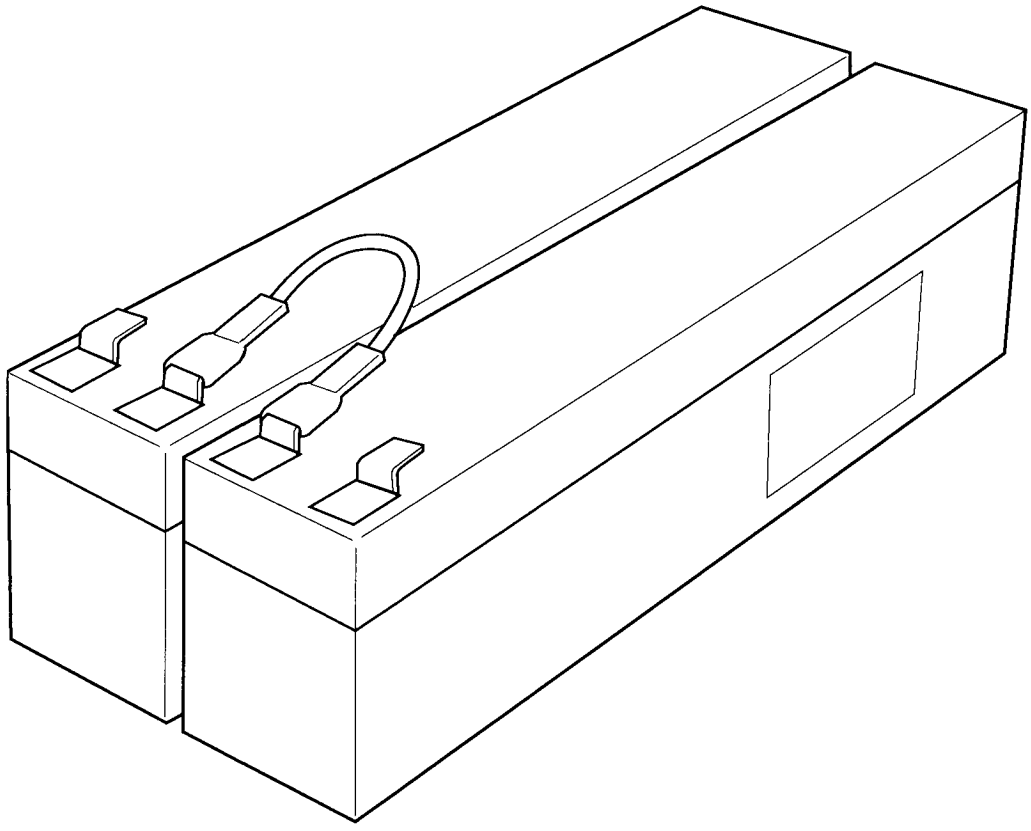




5. Remove the battery and the electronic card from the clip.

Battery

Serial no..... Version..... Release .....



All details according to drawing no. R 3931030-4

Details	Detail pos.	Detail no.	Unit
Battery 2,6 Ah 12 V	3	950000254	2

Liko

4.90.1

Assembly Instructions/Exchange

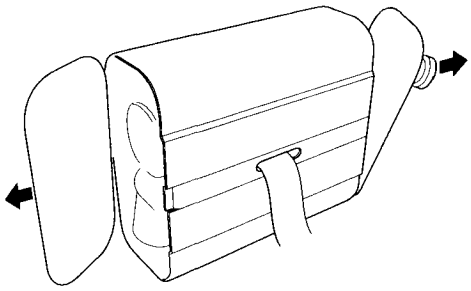
Battery

Prod. no 31290007

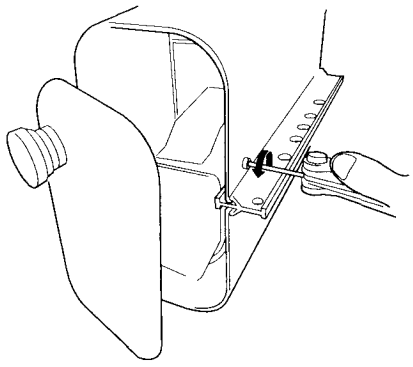
Tools required:

4 mm

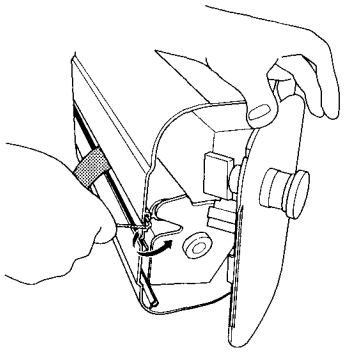
2,5 mm



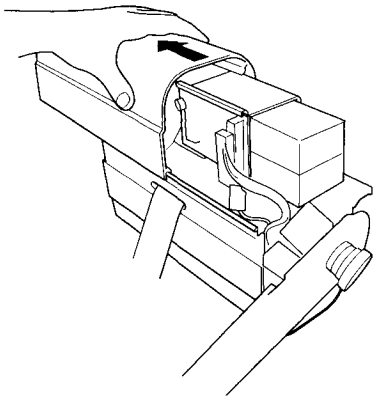
1. Remove the end covers.



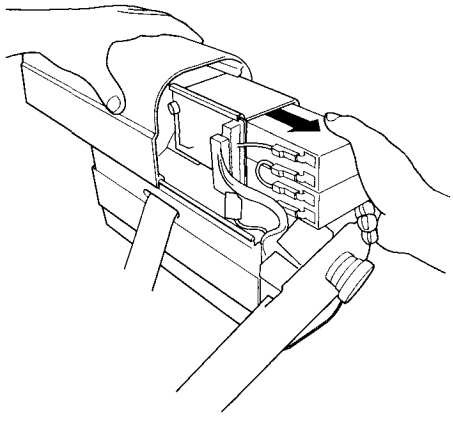
2. Remove the locking screw from the cover.



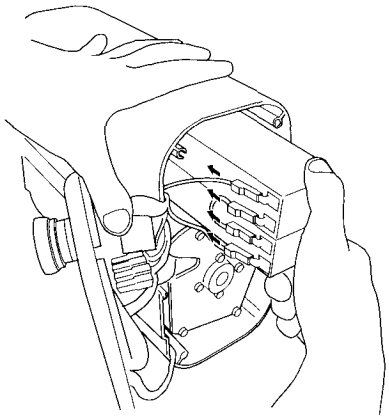
3. Remove the two locking screws from the locking rail.



4. Remove the cover from the actuator.



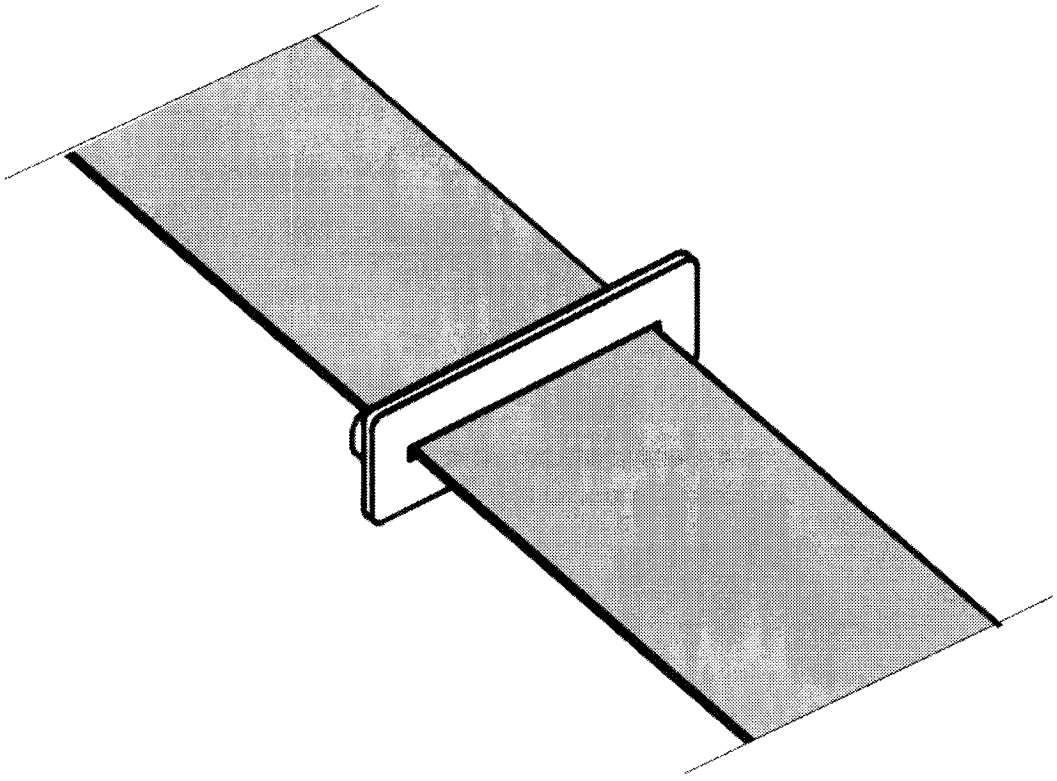
5. Remove the battery and release the cable-shackle from the batteries. Detach the red cable and the black cable.



6. Mount the new battery and the cable-shackle.

Lift strap

Serial no..... Version..... Release .....



All details according to drawing no. R 3931030-4

Details	Detail pos.	Detail no.	Unit
Lift strap LR24	9	901223042	1
Screw MCS M3*55		930000261	1
Nut M3 Nyloc		930000262	1
Strapguide	10	901931019	1

Liko

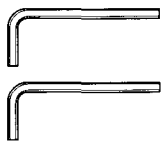
4.91.1

Assembly Instructions/Exchange

Lift strap

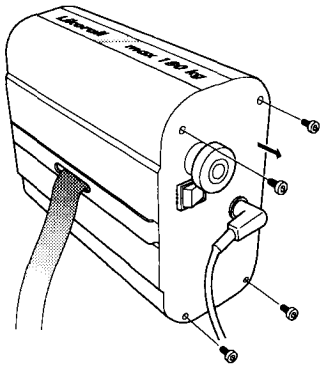
Prod. no 31290011

Tools required:

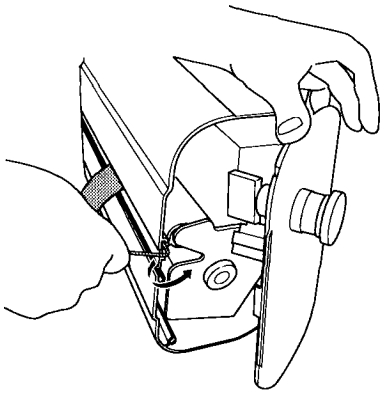


4 mm

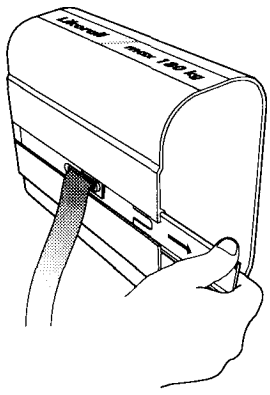
2,5 mm



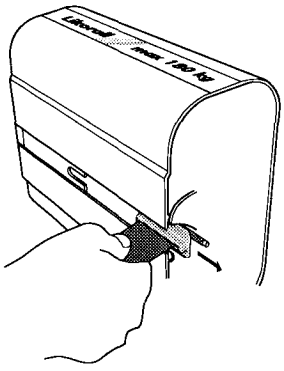
1. Remove the end cover and drive the liftstrap out to the maximum position.



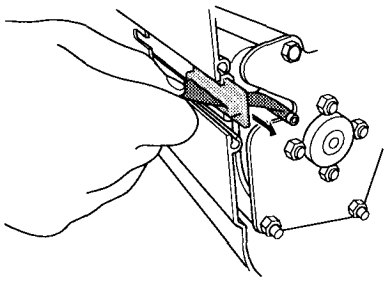
2. Remove the two locking screws from the locking rail.



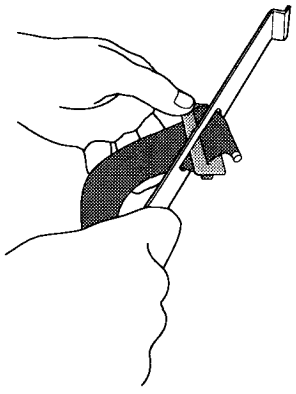
3. Pull the locking rail out .



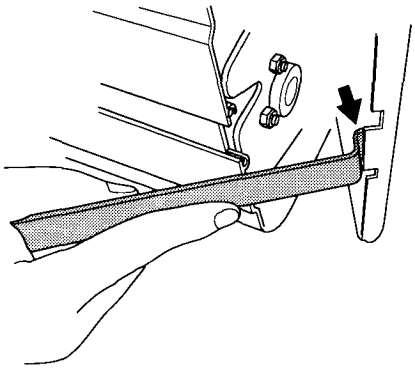
4. Pull the lift strap back a little so you can see that the drum is in line with the plate.



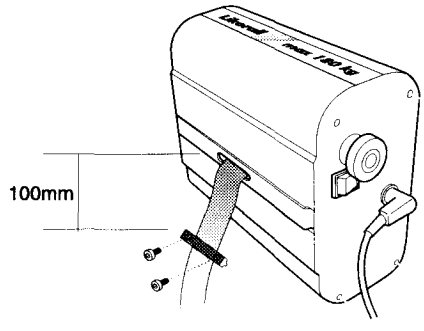
5. Pull the lift strap out.



6. Mount the new lift strap through the squeeze protection.



7. Mount the squeeze protection between the switch and the end cover.

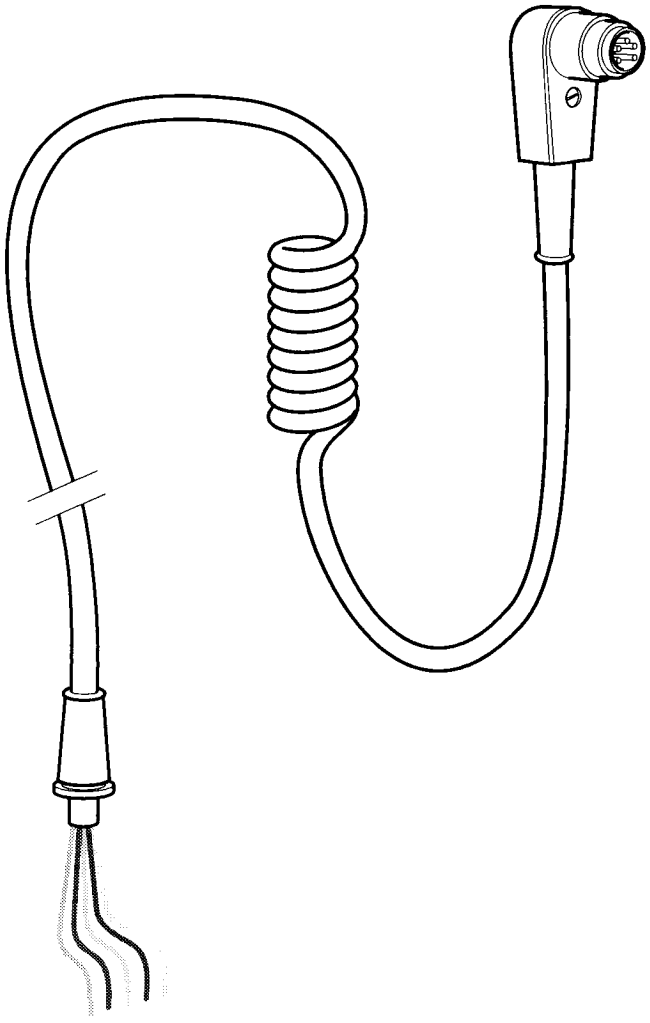


8. Pull the strap in to the highest position. Feed out 10 cm. Mount the strapstop on the lift strap

⚠ **After changing liftstrap the lift must be tested with maximum load**

Cable for handcontrol

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Man.cable with connecting plug		950000336	1

Liko

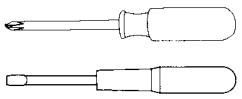
4.94.1

Assembly Instructions/Exchange

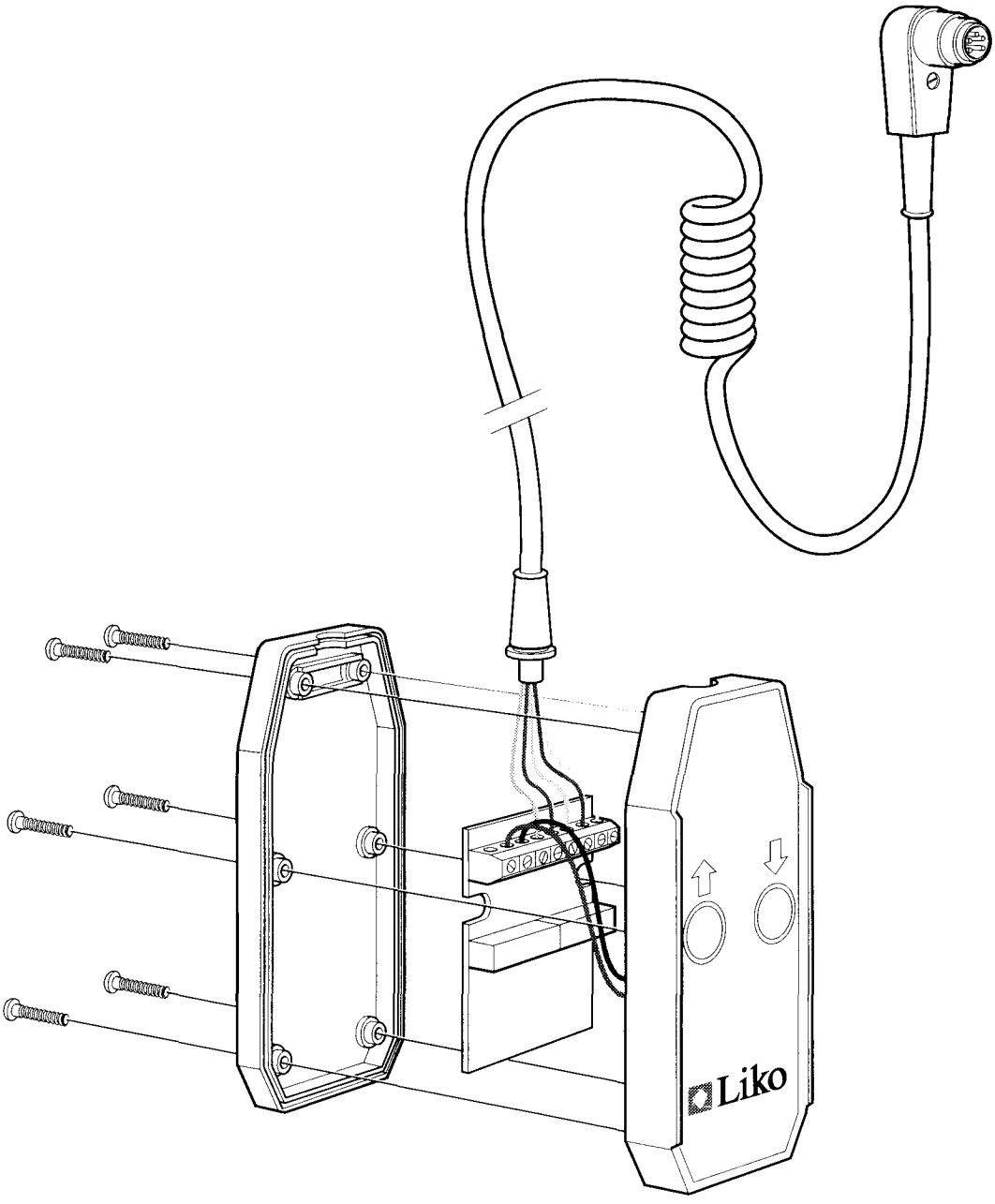
Cable for handcontrol

Prod. no 31290014

Tools required:



6 mm



Liko

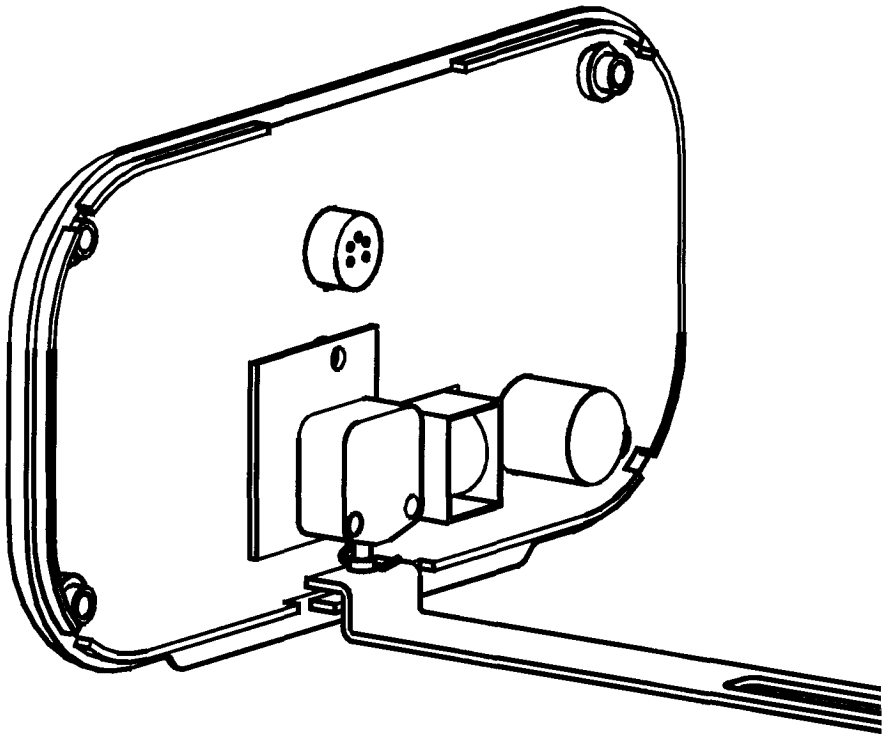
End cover with squeeze protection, black

4.113

Spareparts Specification

Prod. no 31290052

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Cover LR24 compl. Black		900000298	1
Cover without hol, black		9011020-1S	1
Squeeze protection		901103531	1
Damper 20x8x6mm		900000294	1
Strapstop 1		901810401	1
Strapstop 2		901810402	1
Screw MC6S M5x16 Din 6912		930000192	2

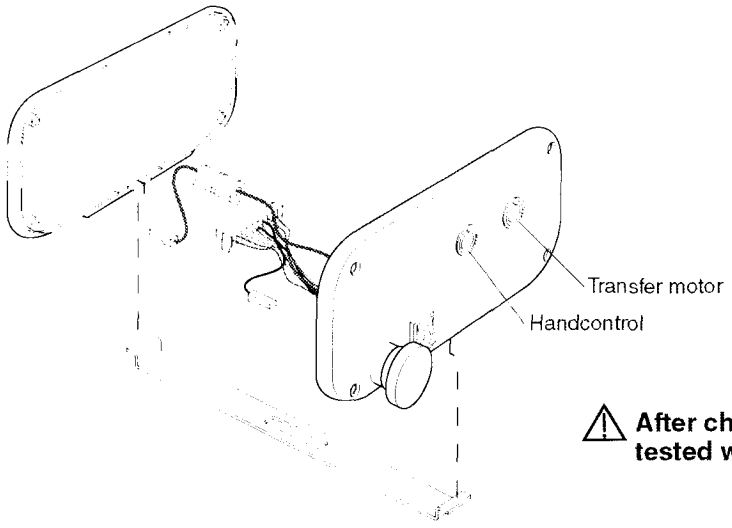
Liko

End cover with squeeze protection, black

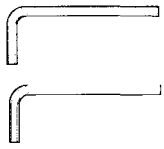
4.113.1

Assembly Instructions/Exchange

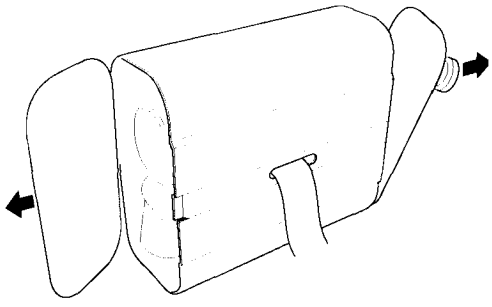
Prod. no 31290052



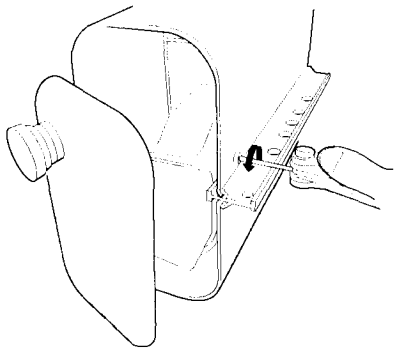
Tools required:



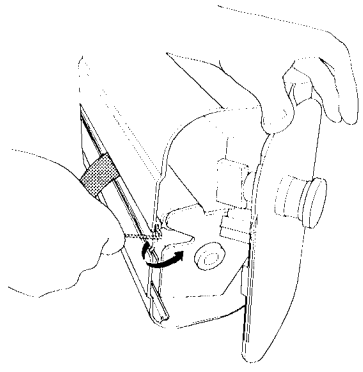
⚠ **After changing squeeze protection the lift must be tested with maximum load**



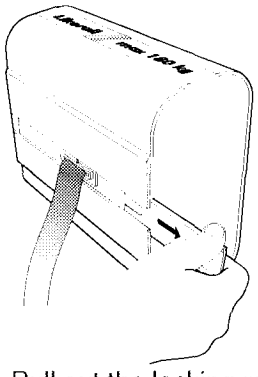
1. Remove the end covers.



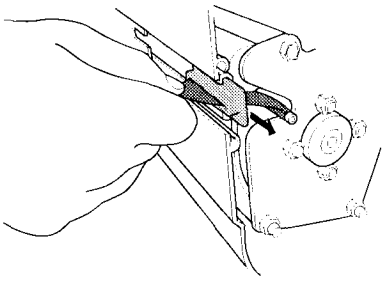
2. Remove the locking screw from the cover.



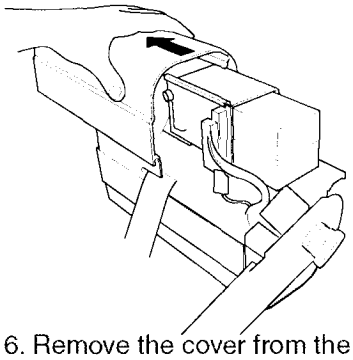
3. Remove the two locking screws from the locking rail.



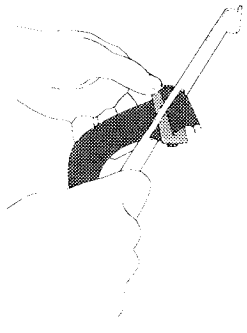
4. Pull out the locking rail.



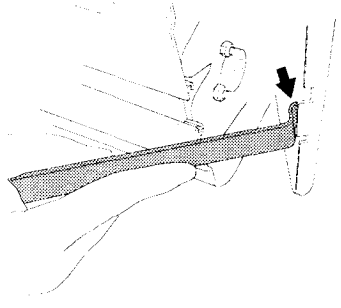
5. Drive the lift strap back a little so you can see that the drum is in line with the plate. Pull out the liftstrap.



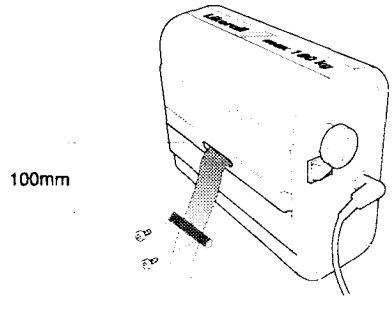
6. Remove the cover from the actuator.



7. Mount the new lift strap through the squeeze protection.



8. Mount the squeeze protection between the switch and the cover.



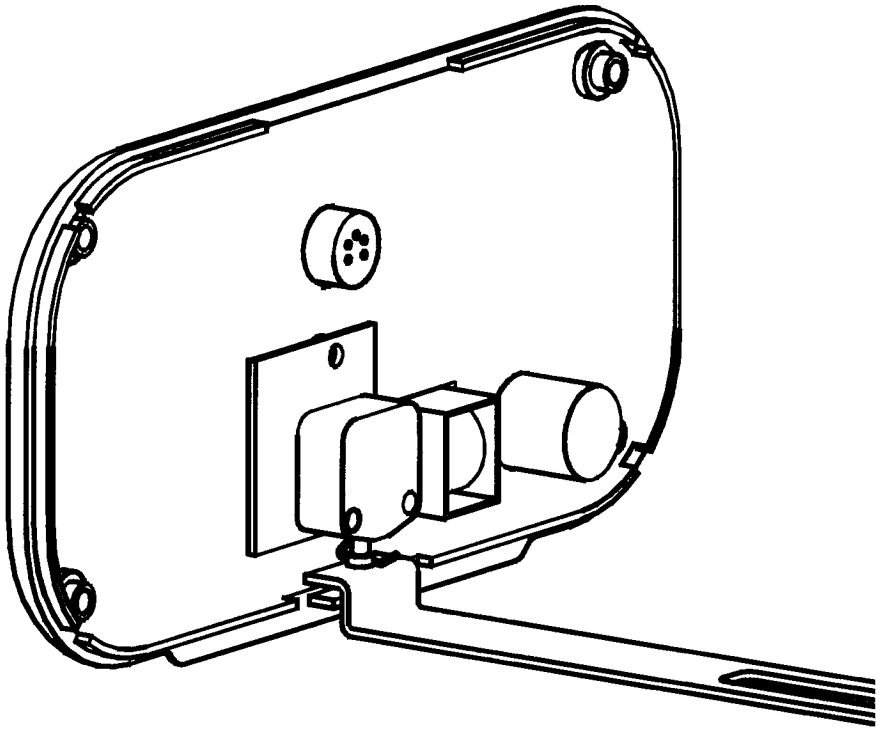
9. Pull the strap in to the highest position. Feed out 10 cm. Mount the strapstop on the lift strap.

Liko

End cover with squeeze protection, gray

Prod. no 31290053

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Cover LR24 compl. gray		900000299	1
Cover without hole, gray		9011020-1G	1
Squeeze protection		901103531	1
Damper 20x8x6 mm		900000294	1
Strapstop 1		901810401	1
Strapstop 2		901810402	1
Screw MC6S M5x16 Din 6912		930000192	2

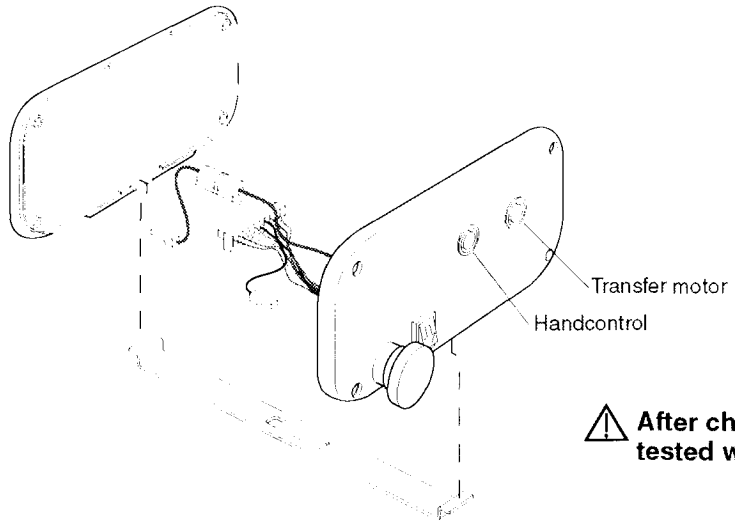
Liko

4.114.1

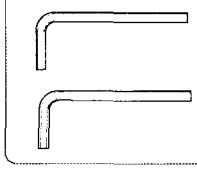
Assembly Instructions/Exchange

End cover with squeeze protection, gray

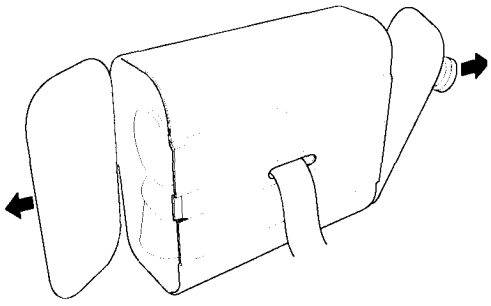
Prod. no 31290053



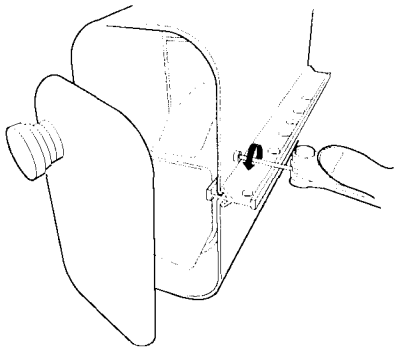
Tools required:



⚠ **After changing squeeze protection the lift must be tested with maximum load**

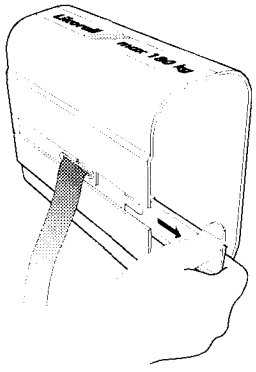


1. Remove the endcovers.

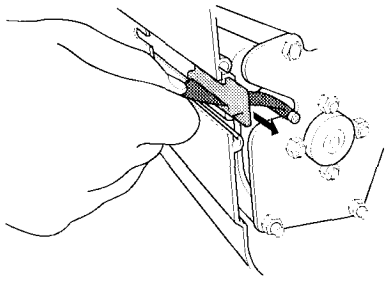


2. Remove the locking screw from the cover.

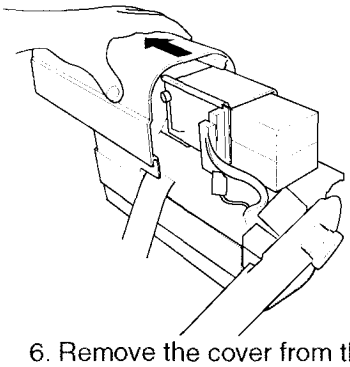
3. Remove the two locking screws from the locking rail.



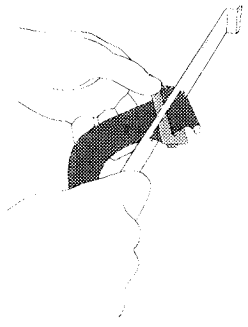
4. Pull the locking rail out.



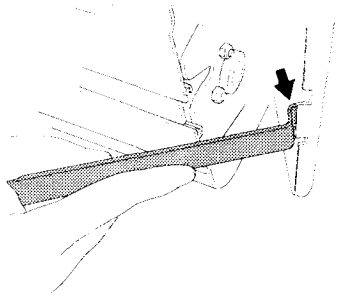
5. Drive the lift strap back a little so you can see that the drum is in line with the plate. Pull out the liftstrap.



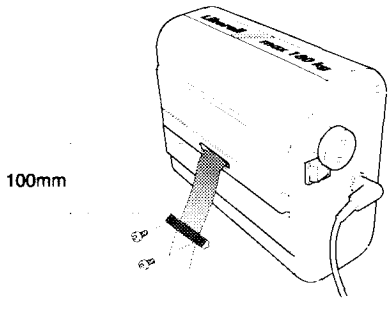
6. Remove the cover from the actuator.



7. Mount the new lift strap through the squeeze protection.



8. Mount the squeeze protection between the switch and the cover.

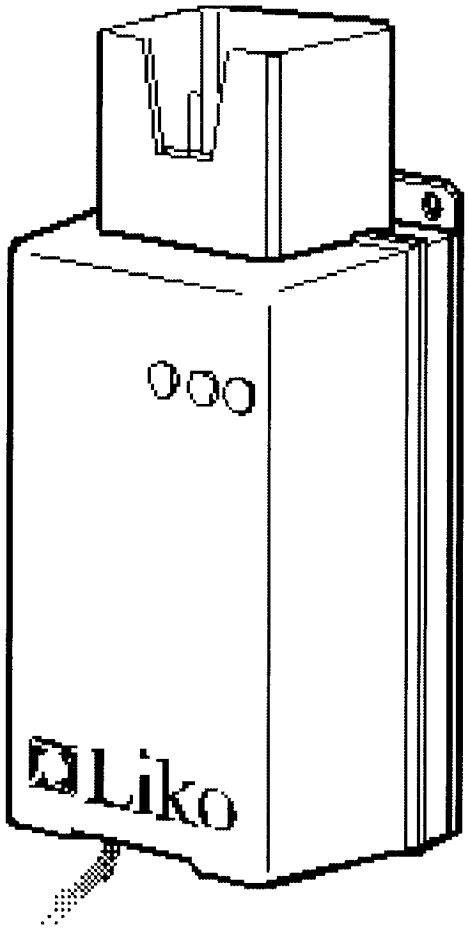


9. Pull the strap in to the highest position. Feed out 10 cm. Mount the strapstop on the lift strap.

Battery charger, EU

Prod. no 3126101

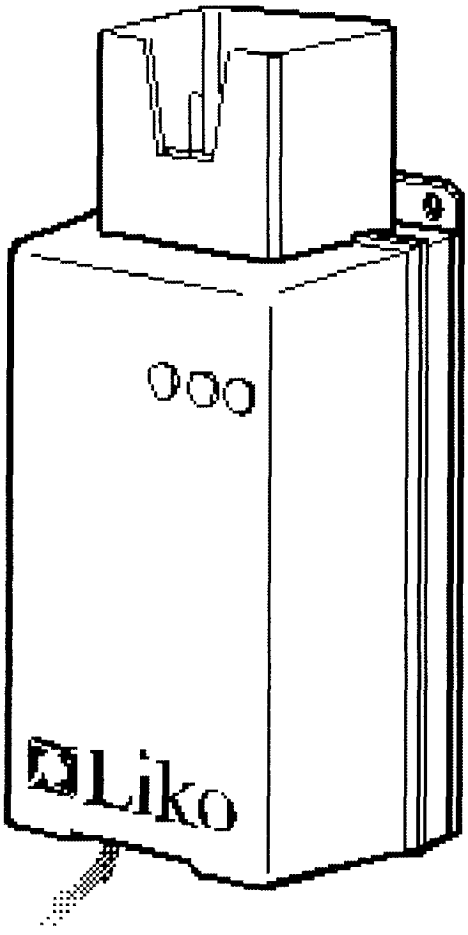
Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Battery charger, EU		3126101	

Battery charger, UK

Serial no..... Version..... Release .....

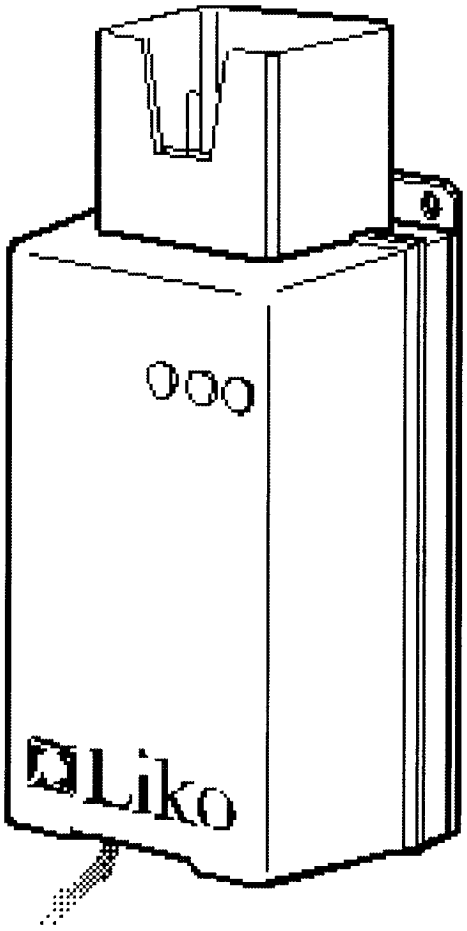


Details	Detail pos.	Detail no.	Unit
Battery charger, UK		3126102	

Battery charger, US

Prod. no 3126103

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Battery charger, US		3126103	

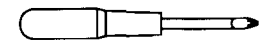
Liko

4.118-120.1

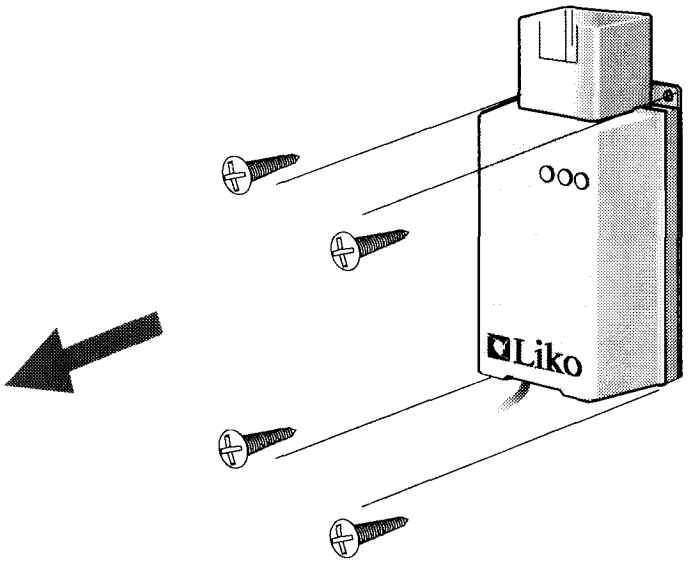
Assembly Instructions/Exchange

Battery charger

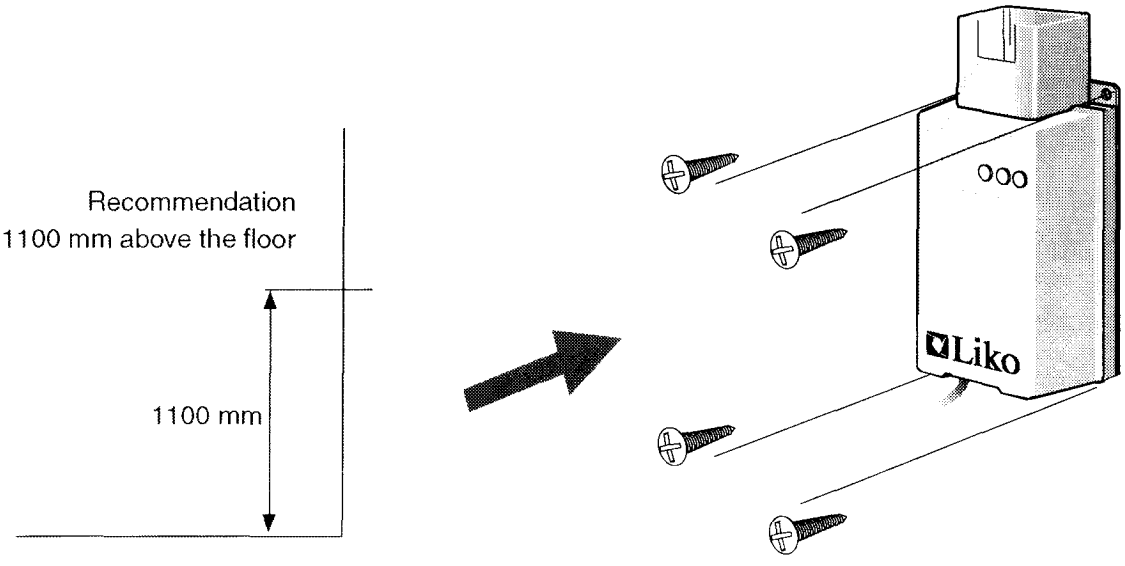
Tools required:



1. Old Charger



2. New Charger



Liko

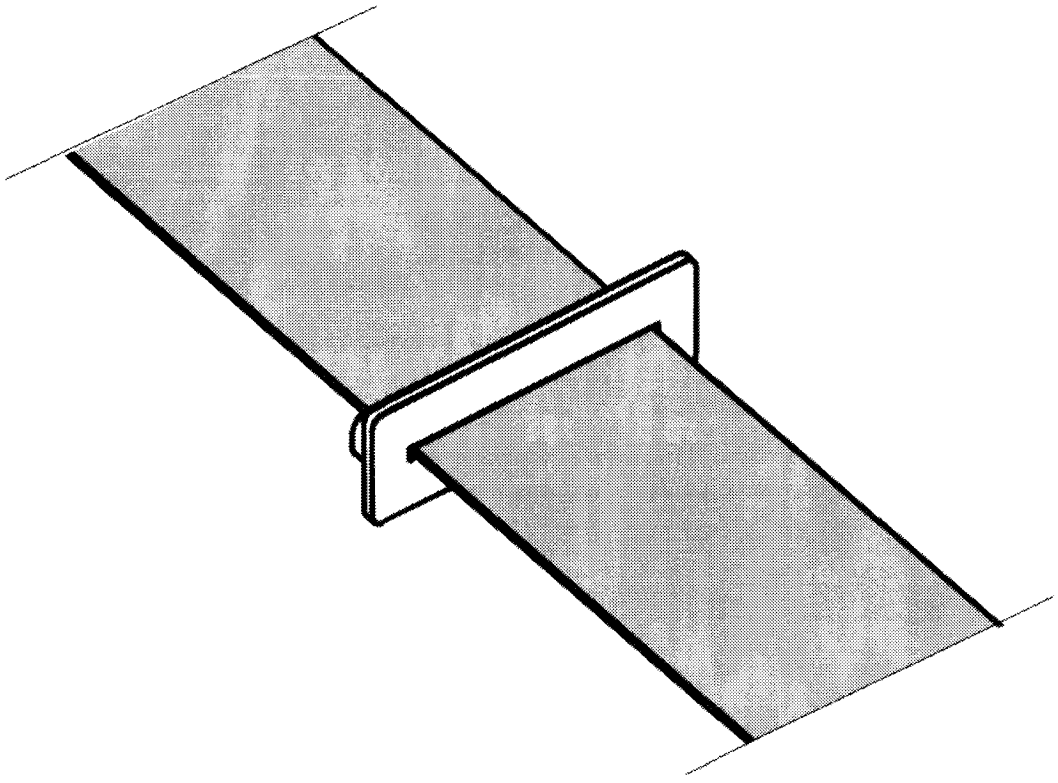
4.129

Spareparts Specification

Lift strap R2R

Prod. no 31290028

Serial no..... Version..... Release .....



All details according to drawing no. R 3931030-4

Details	Detail pos.	Detail no.	Unit
Lift strap R2R LR240	9	901509064	1

Liko

4.129.1

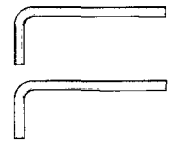
Assembly Instructions/Exchange

Lift strap R2R

Prod. no 31290028

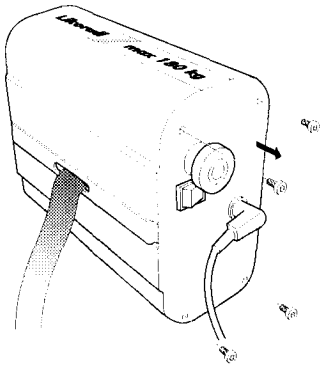
⚠ **After changing lift strap the lift must be tested with maximum load**

Tools required:

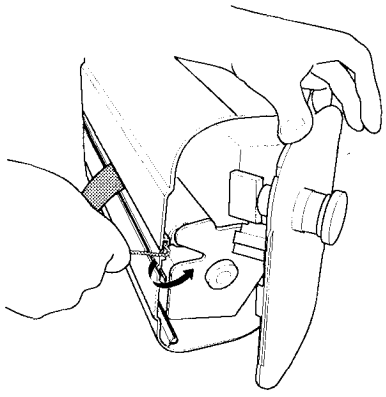


4 mm

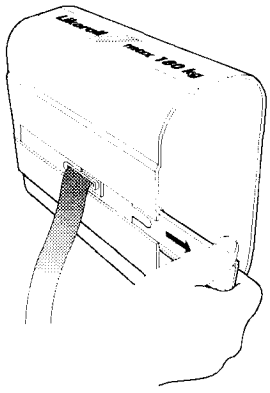
2,5 mm



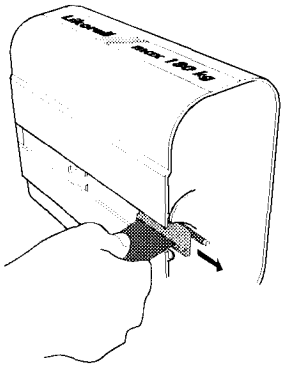
1. Remove the cover then drive the lift strap out.



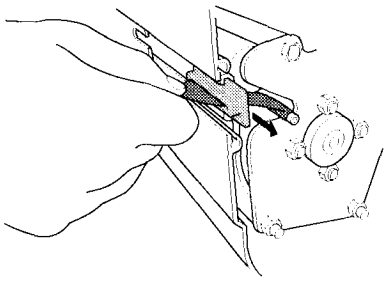
2. Remove the two locking screws from the locking rail.



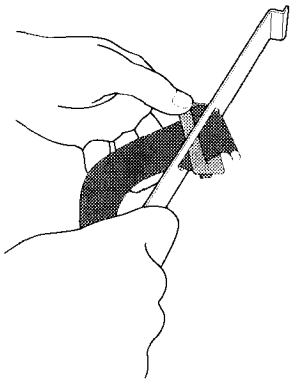
3. Pull the locking rail out.



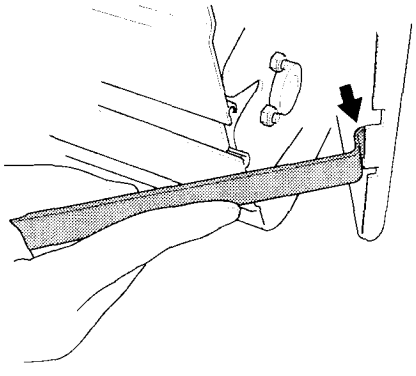
4. Drive the lift strap back a little so you can se the drum is in line with the plate.



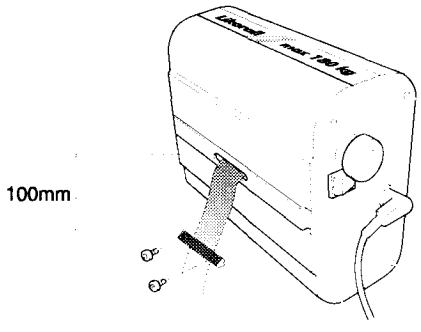
5. Pull the lift strap out.



6. Mount the new lift strap through the squeeze protection.



7. Mount the squeeze protection between the switch and the cover.

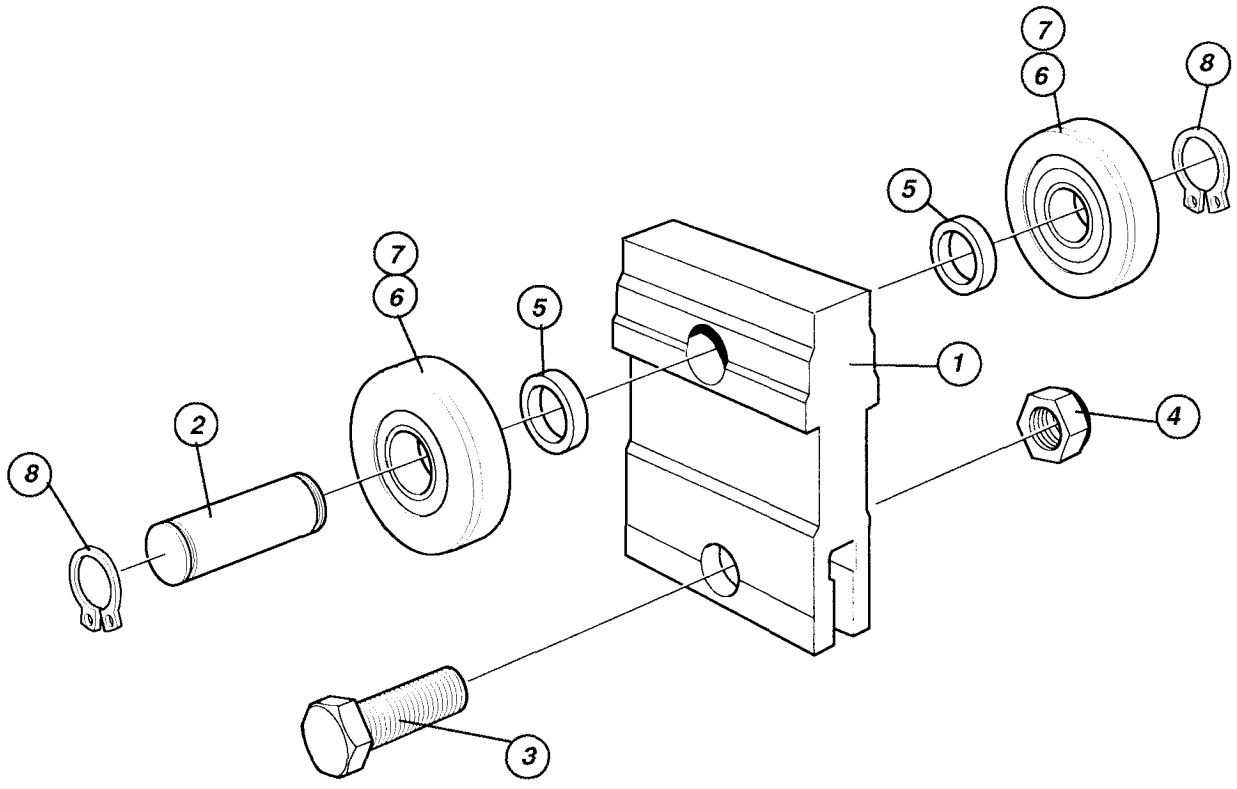


8. Pul the strapl in to the highest position. Feed out 10 cm. Mount the strapstop on the lift strap

Carriage part w/o brake

Prod. no 3126017

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Carriage DeJong	1	901489302	1
Axle 10*42	2	9012164D1	1
Screw M6S M8*25	3	930000279	1
M8 Nyloc	4	930000091	1

Details	Detail pos.	Detail no.	Unit
Washer 10/16*2 PVC	5	930000086	6
Ball bearing 6000-2Z	6	920000098	2
Wheel D=34mm	7	91181408T	2
Seeger-lock device	8	930000250	2

Liko

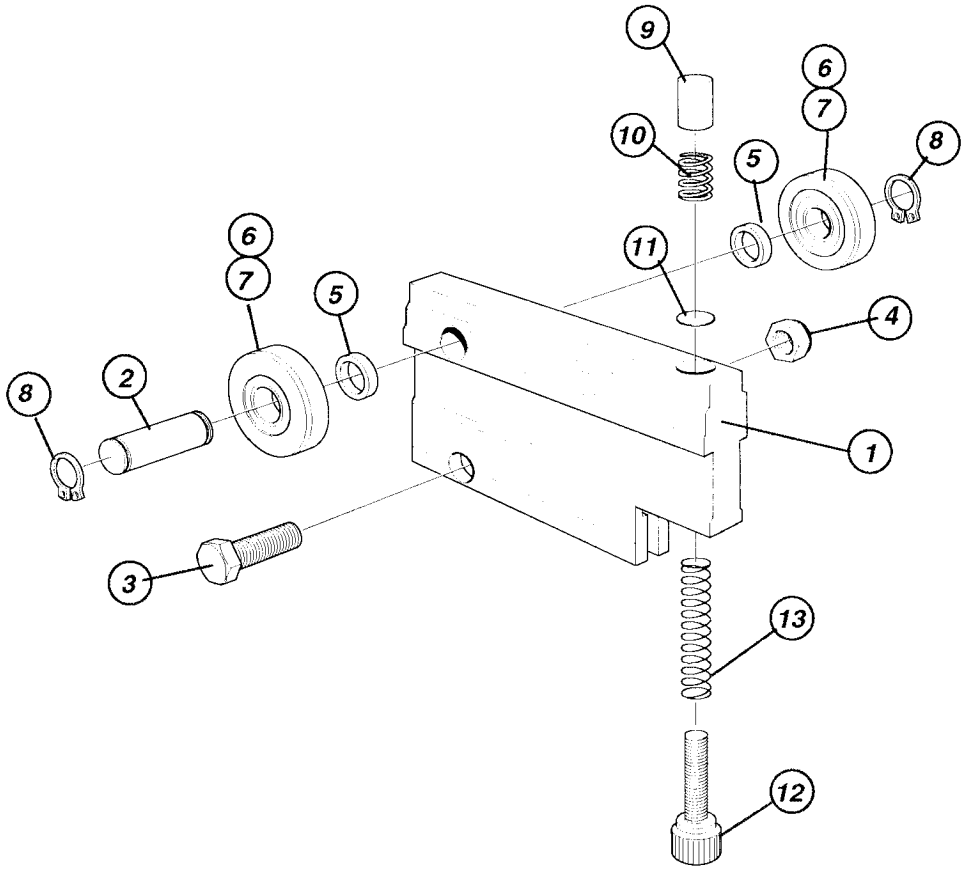
4.134

Spareparts Specification

Carriage with brake

Prod. no 3126013

Serial no..... Version..... Release .....



All details according to drawing no.

Details	Detail pos.	Detail no.	Unit
Carrige Likorall	1	901931026	1
Axle 10*42	2	9012164D1	1
Screw M6S M8*25	3	930000279	1
M8 Nyloc	4	930000091	1
Wascher 10/16*2 PVC	5	930000086	2
Ball bearing	6	920000098	2
Wheel	7	91181408T	2

Details	Detail pos.	Detail no.	Unit
Seeger-lock device	8	930000250	2
Glidechock D=10 L=19mm	9	900000280	1
Spring 1,5*9,5*20	10	930000281	1
Washer 10*1	11	930000282	1
Screw, PS1412 M6*20 S	12	930000283	1
Spring 0.5x6x20	13	900000014	1

Liko

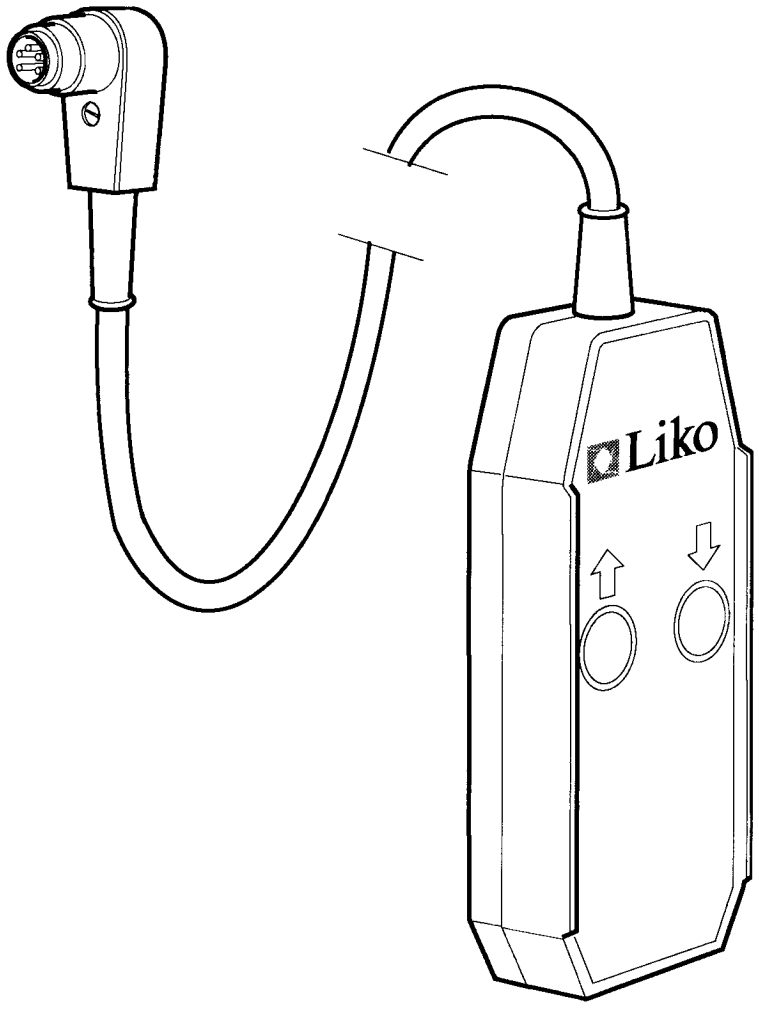
4.135

Spareparts Specification

Handcontrol with cable, 2-button

Prod. no 3126031

Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Cover 2-button		900000328	1
Tube / solder		900000331	2
Cable tube		900000335	1
Decal handcontrol 2-button		900000338	1
Screw PTK 30x16		930000334	6

Details	Detail pos.	Detail no.	Unit
Cable 0.5 mm, L=0.1 m		950000174	0,1
Cable 0.5 mm, L=0.1 m		950000175	0,1
Electronic card 2-button		950000330	1
Man.cable with connecting plug 5pol		950000336	1

Liko

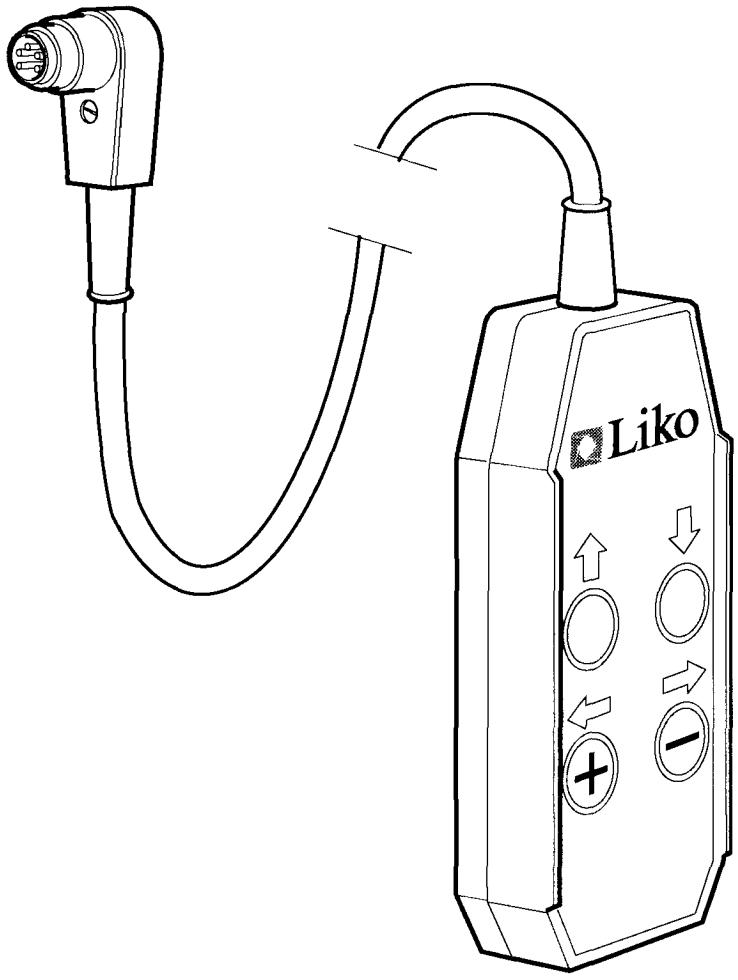
4.136

Spareparts Specification

Handcontrol for traverse, 4-button

Prod. no 3126032

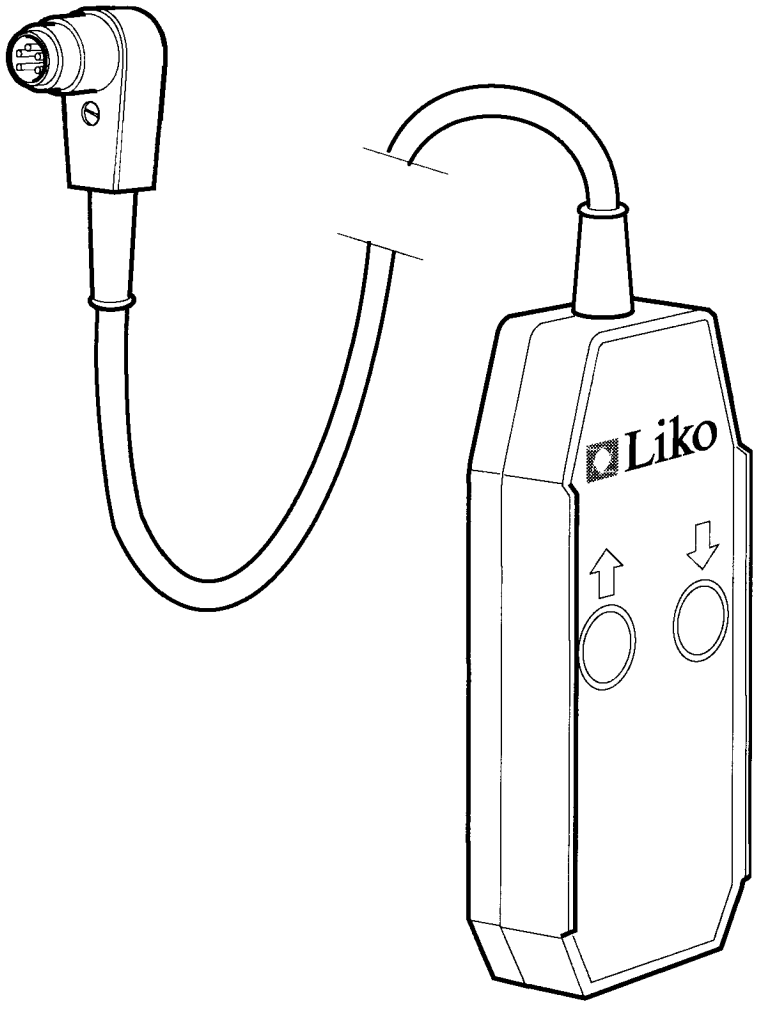
Serial no..... Version..... Release .....



Details	Detail pos.	Detail no.	Unit
Tube / solder		900000331	2
Cable tube		900000335	1
Decal handcontrol 4-button		900000340	1
Screw PTK 30x16		930000334	6
Cover 4-button		950000166	1
Cable 0.5 mm, L=0.1 m		950000174	0,1
Cable 0.5 mm, L=0.1 m		950000175	0,1
Man.cable with connecting plug 5po		950000336	1
Electronic card 4-button		950000339	1

Handcontrol with extra long cable, 2-button Prod. no 3126033

Serial no..... Version..... Release .....

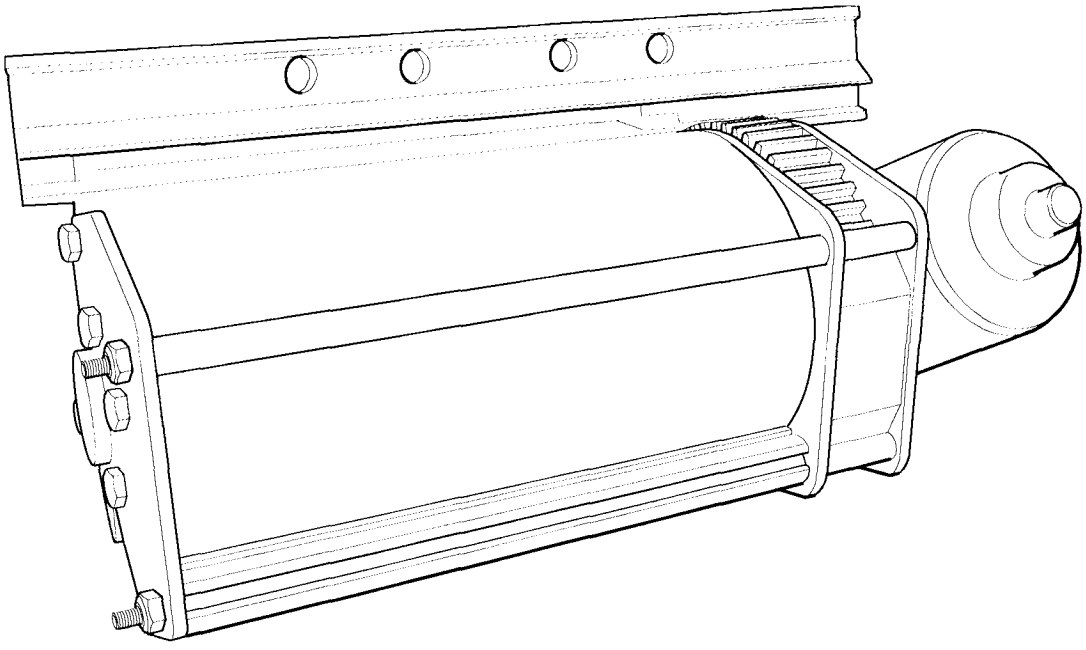


Details	Detail pos.	Detail no.	Unit
Cover 2-button		900000328	1
Tube / solder		900000331	2
Cable tube		900000335	1
Decal		900000338	1
Screw PTK 30x16		930000334	6
Handc.cabel with cont. 5pol		950000069	1
Cable 0.5 mm, L=0.1 m		950000174	0,1
Cable 0.5 mm, L=0.1 m		950000175	0,1
Electronic card, 2-button		950000330	1

Actuator restoration set LR242

Prod. no 31290054

Serial no..... Version..... Release .....



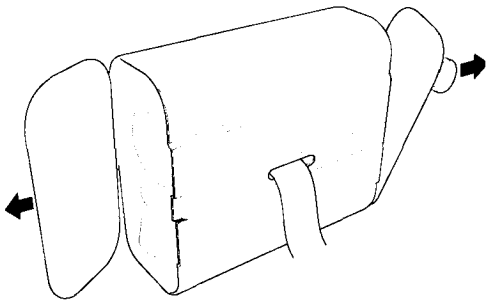
Liko

4.151.1

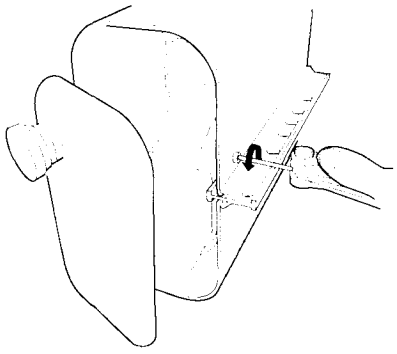
Assembly Instructions/Exchange

Actuator restoration set LR242

Prod. no 31290054

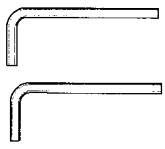


1. Remove the end covers.



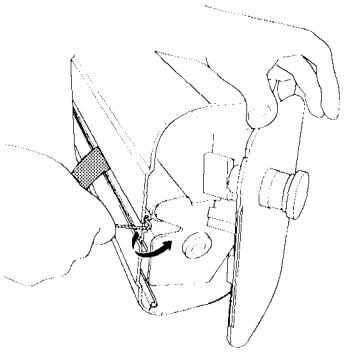
2. Remove the locking screw from the cover.

Tools required:

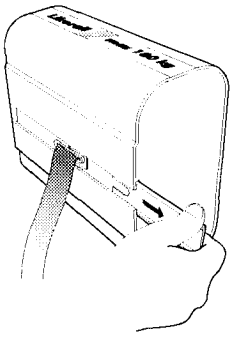


4 mm

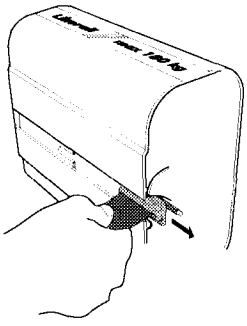
2,5 mm



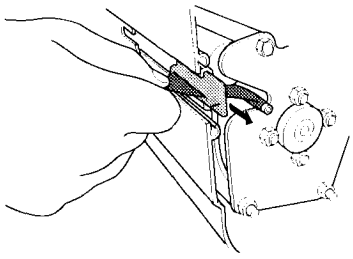
3. Remove the two locking screws from the locking rail.



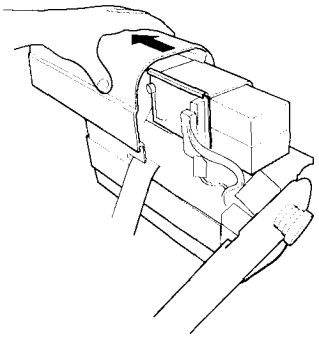
4. Pull the locking rail out .



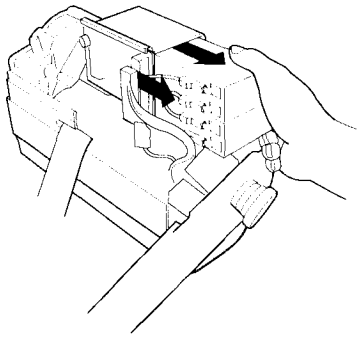
5. Drive the lift strap back a little so you can see that the drum is in line with the plate.



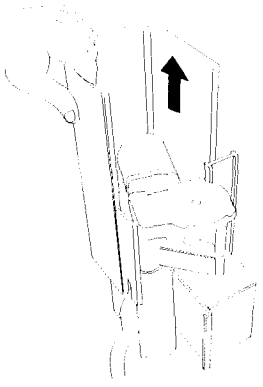
6. Pull the liftstrap out.



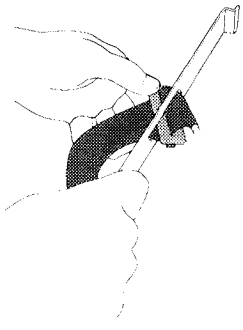
7. Remove the cover from the actuator.



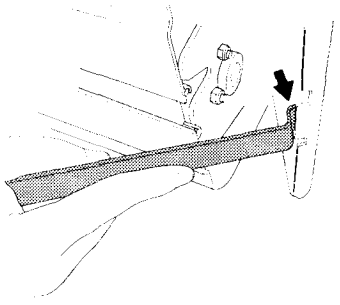
8. Remove the battery, and the electronic card from the clip.



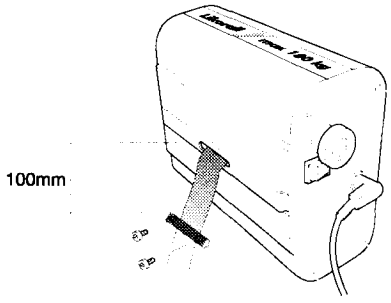
9. Remove the locking screw. Pull the cover out from the actuator.



10. Mount the new lift strap through the squeeze protection.



11. Mount the squeeze protection between the switch and the cover.



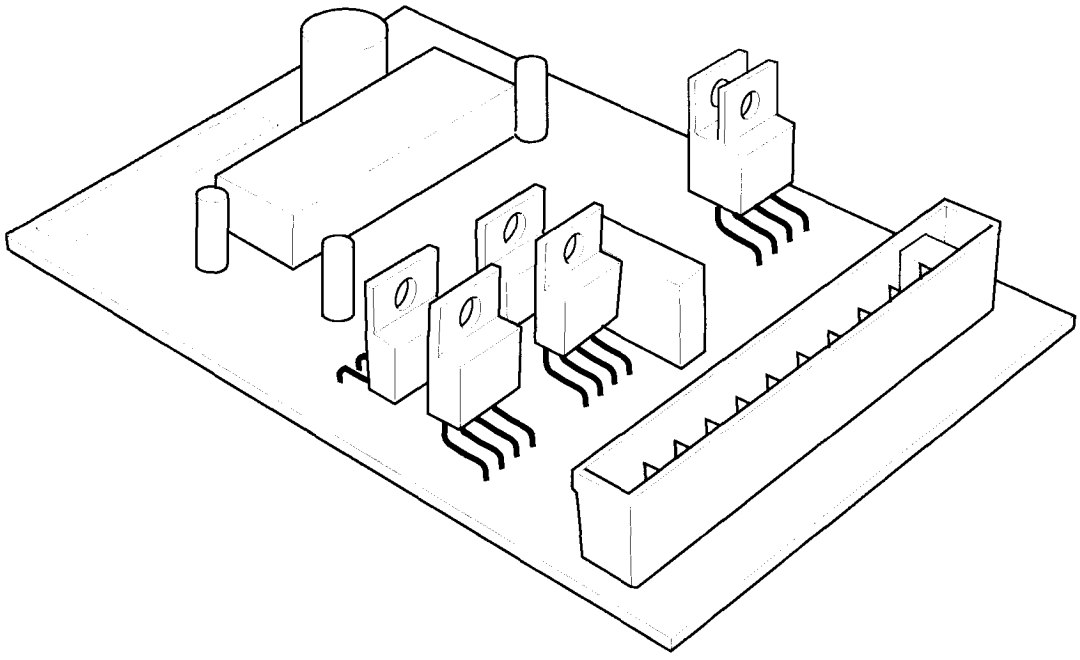
12. Pull in the strap to the highest position. Feed out 10 cm. Mount the strapstop on the liftstrap.

⚠ **After changing actuator the lift must be tested with maximum load**

Electronic card LR 242

Prod. no 31290055

Serial no..... Version..... Release .....



All details according to drawing no. R 3931030-4

Details	Detail pos.	Detail no.	Unit
Electronic card LR 242	2	950000055	1

Liko

4.152.1

Assembly Instructions/Exchange

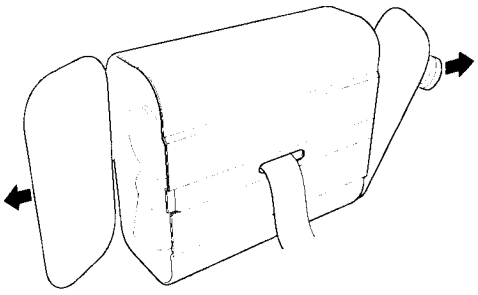
Electronic card LR242

Prod. no 31290055

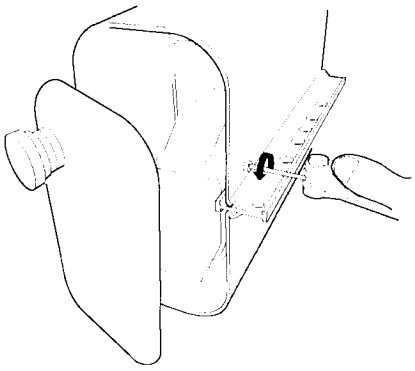
Tools required:

4 mm

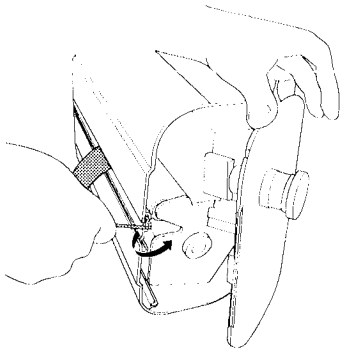
2,5 mm



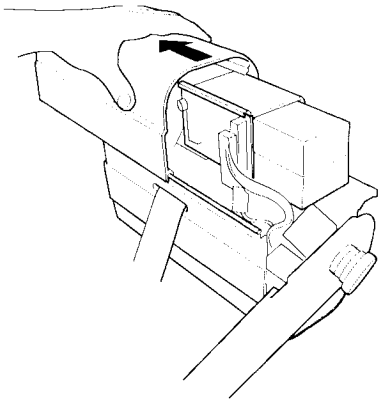
1. Remove the end covers.



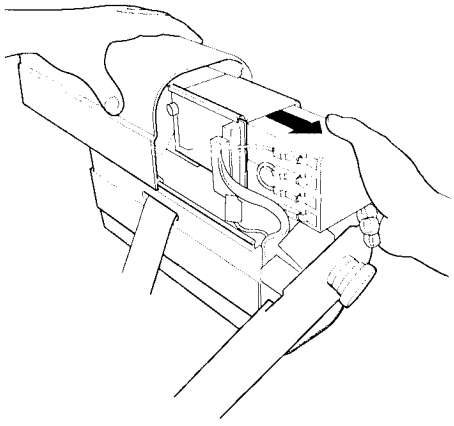
2. Remove the locking screw from the cover.

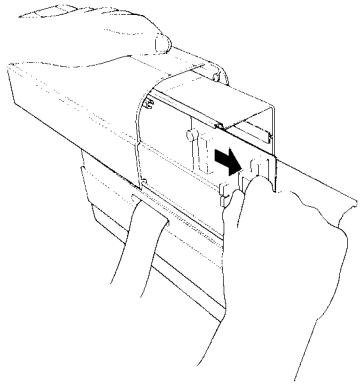


3. Remove the two locking screws from the locking rail.



4. Remove the cover from the actuator.





5. Remove the battery and the electronic card from the clip.

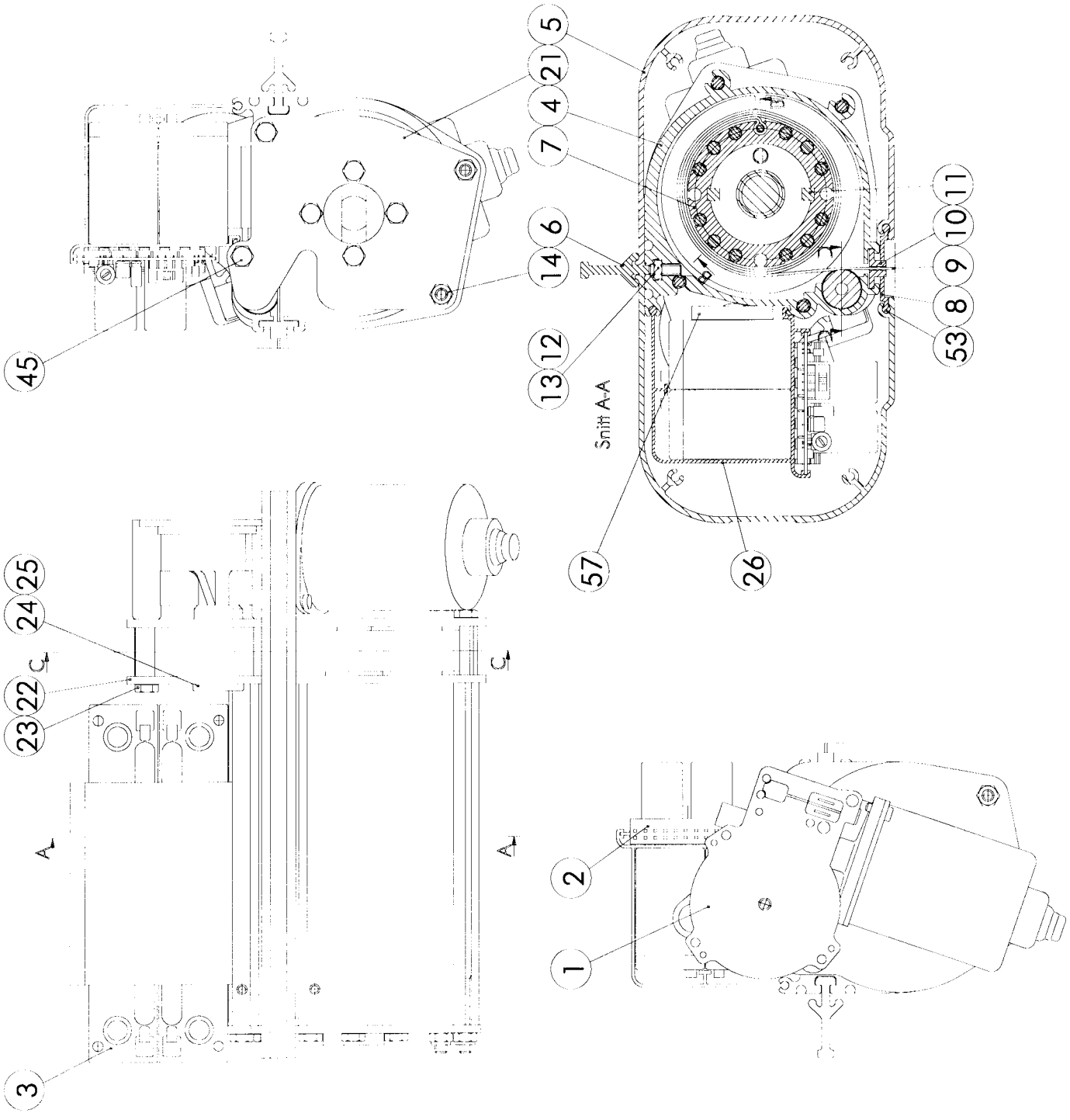
Troubleshooting Likorall 240/240 R2R, 242/242 R2R

The lift doesn't work.	1. Check that the emergency stop button is not pressed in. 2. Charge the battery. 3. Check that the hand control is firmly connected. 4. If the lift still does not work correctly, contact Liko.
A repeated signal can be heard from the lift.	1. Charge the battery immediately. 2. If the lift still does not work correctly, contact Liko.
The lift stops in elevated position.	1. Use the emergency lowering device (marked). 2. If the lift still does not work correctly, contact Liko.
If you hear unusual sounds or discover worn straps.	*Contact Liko.*
The lift reverses appr. 10-20mm after the maximum height is reached.	*Contact Liko.*

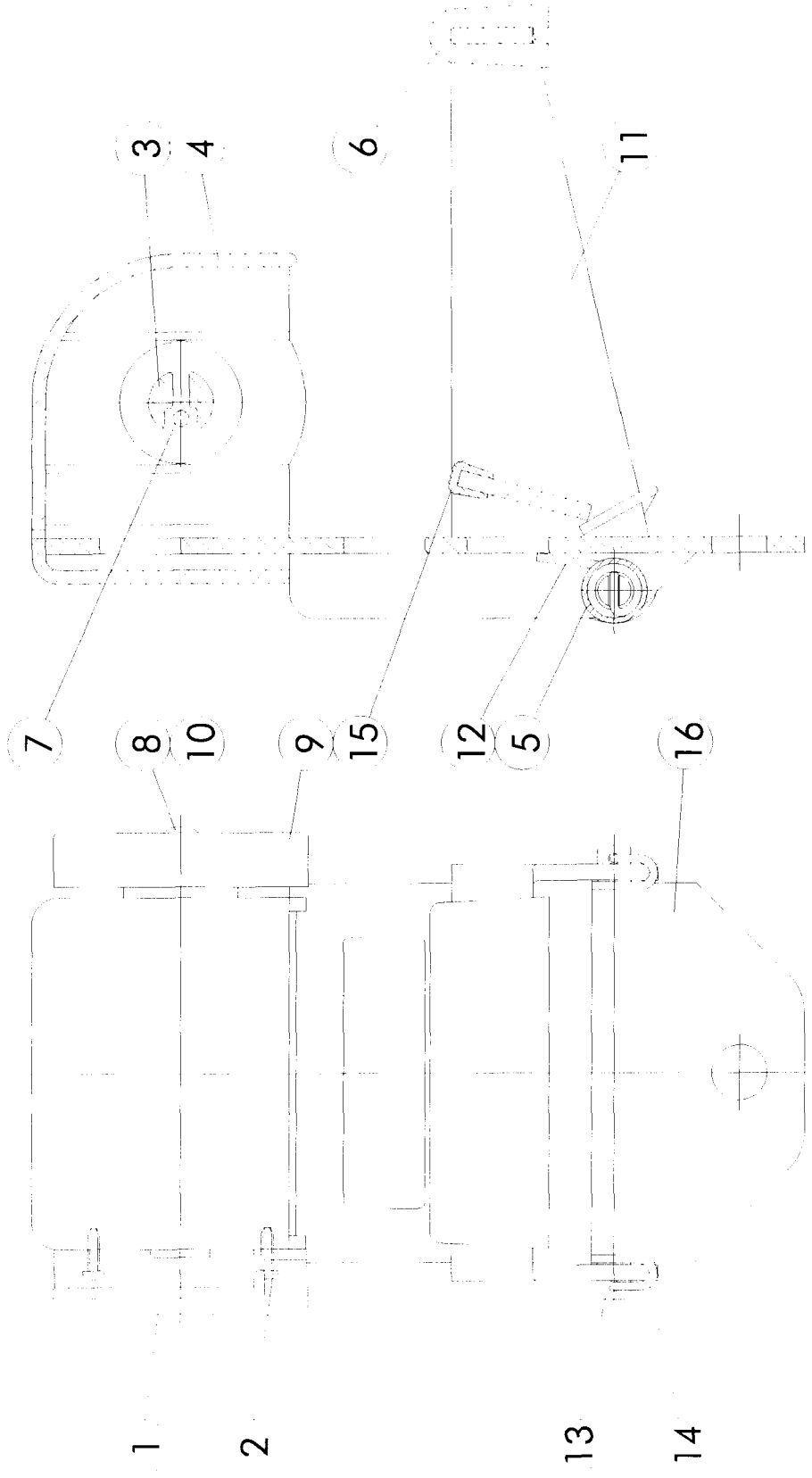
Enkel felsökning Likorall 240/240 R2R, 242/242 R2R

Lyften fungerar inte.	1. Kontrollera att nödstoppen ej är intryckt. 2. Ladda batteriet. 3. Kontrollera att handkontrollen sitter fast. 4. Om den fortfarande inte fungerar tillfredsställande, kontakta Liko.
Lyften ger ifrån sig upprepade signaler.	1. Ladda batteriet omgående. 2. Om den fortfarande inte fungerar tillfredsställande, kontakta Liko.
Lyften stannar i högt läge.	1. Använd markerad nödsänkningsanordning. 2. Om den fortfarande inte fungerar tillfredsställande, kontakta Liko.
Om du hör eventuella missljud.	*Kontakta Liko.*
Lyften backar ca 10-20 mm.	*Kontakta Liko.*

Drawing no. R3931030-4



Drawing no. R3961204



Liko

Checklist for stationary lifts

Customer

No.
Name
Address:

(Zip Code)
City/state
Country
Tel:
Fax:

Customer Reference:

Name
Tel:
Fax:
E-mail:
Text:
Contract no.:
Lift type:
Location:
Serial No:
Manuf. Year:

Check

Pos	System
1	**Installation**
1.1	Ceiling
1.2	Wall
1.3	Upright supports
1.4	Screws/bolts
2	**Weight-bearing components/rail system**
2.1	Ceiling attachment/wall attach./upright supports
2.2	Primary / secondary / rails
2.3	Power unit traverse / motor
2.4	End stops
2.5	Screws /bolts
3	**Power unit**
3.1	Power unit connections
3.2	Lifting range/ limits (parameters)
3.3	Lift strap / slingbar connection
3.4	Hand control
4	**Safety features**
4.1	Emergency lowering device
4.2	Safety hooks slingbar
5	**Power**
5.1	Cables / connectors
5.2	Battery/ charger
5.3	Emergency stop
6	**Documentation**
6.1	Labels / signs
6.2	Instructions / users guides
7	**Other**
7.1	Protective cover
7.2	Notes

Comments:

1. Attention 2. Correct Immediately
3. Do not Use!

Item	System

Load test weight:
Date:

Serviced by:

Liko

Checklista stationära lyftar

Kund

Kundnr.:

Namn:

Adress:

Postnr.

Ort.

Land:

Tel:

Fax:

Kundreferenser

Namn:

Tel:

Fax:

E-post:

Text:

Avtalsnr.:

Lyfttyp:

Placering:

Tillv.nr.:

Tillv.år:

Kontroll av:

Pos	System
1	**Infästning**
1.1	Tak
1.2	Vägg
1.3	Stödben
1.4	Skruvförband
2	**Bärande delar / Skensystem**
2.1	Takf. / Väggf. / Stolpe
2.2	Primär / Sekundär / Skenor
2.3	Åkvagn Travers / Motor
2.4	Ändstopp
2.5	Skruvförband
3	**Lyftblock**
3.1	Infästning Åkvagn
3.2	Lyftområde / Gränsläge
3.3	Lyftband / Infästning Lyftbygel
3.4	Handkontroll
4	**Säkerhetsanordningar**
4.1	Nödsänkning
4.2	Urkorkningsskydd Lyftbygel
5	**Elektronik**
5.1	Kablage / Anslutningar
5.2	Batteri / Laddningsfunktion
5.3	Nödstopp
6	**Dokumentation**
6.1	Typskylt
6.2	Instruktion / Bruksanvisning
7	**Övrigt**
7.1	Skyddskåpor
7.2	Notering

Anmärkning:

1. Påpekande
2. Åtgärdas omg.
3. Får ej användas

Pos	System

Provbelastad med märklast:

Datum:

Service utförd av: